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FINAL

Site Characterization Report

Former Commander Oil Terminal – Off-Site
Oyster Bay, New York
NYSDEC Site No. C130244A

Work Assignment # D009804-31

August 2025

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NYSDEC Site No. C130244A

August 15, 2025

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I, Stefan Bagnato, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

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Acronyms and Abbreviations

AOC	Area of Concern
AS	Air Sparge
BCP	Brownfield Cleanup Program
bgs	Below Ground Surface
CVOC	Chlorinated Volatile Organic Compound
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
ESA	Environmental Site Assessment
FAP	Field Activities Plan
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
JSA	Job Safety Analyses
µg/m^3	Micrograms Per Cubic Meter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic aromatic hydrocarbon
PCBs	Polychlorinated Biphenyls
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization detector
ppm	Parts per Million
PWGC	P.W. Grosser Consulting, Inc.
QA	Quality Assurance
QC	Quality Control
QAPP	Quality Assurance Project Plan

RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SC	Site Characterization
SCO	Soil Cleanup Objective
SIM	Selective Ion Monitoring
SVE	Soil Vapor Extraction
SVOCs	Semi-Volatile Organic Compounds
TCE	Trichloroethylene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

1 Introduction

On behalf of the New York State Department of Environmental Conservation (NYSDEC), Arcadis of New York, Inc. (Arcadis) has prepared this Site Characterization (SC) Report to summarize investigation activities at the Former Commander Oil Terminal Off-Site area (C130244A) (Site) in Oyster Bay, Nassau County, New York (**Figure 1-1**). The SC was conducted under NYSDEC Standby Contract Work Assignment No. 009804-31. The objective of the SC was to assess the potential off-site migration of contamination (primarily chlorinated volatile organic compounds [CVOCs] and petroleum) from the Former Commander Oil Terminal site (C130244). This document presents the Site history, summary of previous investigations, an outline of the work completed as part of the SC, and a discussion of analytical data derived from samples collected during field activities.

2 Site Background

The Site consists of the adjacent off-site areas (C130244A) associated with the Brownfield Cleanup Program (BCP) Former Commander Oil Terminal site No. C130244. The Site is located in a mixed area of industrial, commercial, and residential properties surrounding the Former Commander Oil Terminal at One Commander Square, Oyster Bay, New York. The Site properties consist of commercial properties to the North of the Former Commander Oil terminal, Whites Creek to the South, and Oyster Bay Harbor to the East. The nearest residential property is approximately 100 feet south of the Former Commander Oil Terminal (NYSDEC, 2024).

The Former Commander Oil Terminal has been in use since at least the late 1800s. Initially the property was a sawmill, coal yard, ice plant, and residence. After the 1930s the Oil Terminal property was used for major oil storage and associated activities through May 2022, after which MOSF operations ceased, the large capacity storage tanks and piping were emptied but still remain in place as decommissioning in ongoing in anticipation for site redevelopment. The Oil Terminal property has been shown to have volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals in the soil beneath it as well as soil vapor impacted with VOCs. The groundwater beneath the Oil Terminal has also been shown to have VOCs, SVOCs, metals, and Per- and Polyfluoroalkyl Substances (PFAS). In addition, there was vapor recovery unit (VRU) in the northern part of the property which utilized trichloroethylene (TCE) as a refrigerant (NYSDEC, 2024).

The commercial property to the north of the Oil Terminal operates as a commercial oyster harvesting and processing facility with areas sub-leased for storage. Whites Creek to the south is a stream which empties eastward into Oyster Bay (NYSDEC, 2024).

2.1 Geology/Hydrogeology

Based on previous investigations at the Oil Terminal, the local geology appears to consist of fill overlying silty sand and a discontinuous organic peat layer ranging in depth from six to ten feet (ft) below ground surface (bgs) (Kleinfelder, 2010). This peat layer ranges in thickness from two to five ft. Soils below the peat layer range from fine to coarse sands and gravel to approximately 30 ft. bgs. Groundwater ranges from three to seven ft. bgs and flows to the east-southeast above the peat layer and east-northeast below it (NYSDEC, 2024).

During the SC the previously identified peat layer was observed between 5 and 7 ft. bgs and varied in thickness from six inches to three feet, consistent with previous investigations. Soil below the peat layer, where observed, was noted to be silty sands with varying amounts of gravel, and with increasing amounts of fines with depth. The clay layer identified in previous investigations was observed at variable depths ranging from 21 to 29 feet bgs, consistent with previous investigations. The clay layer itself was observed to be proceeded by a relatively abrupt shift from silty sands with gravel to very fine sand/silt with interbedded clay lenses.

Groundwater was observed to range from 2.5 to 6 ft. bgs and appears to generally flow to the east as shown on **Figures 2-1** and **2-2**.

2.2 Previous Investigations

Numerous petroleum spills have occurred at the Oil Terminal property in the 1970s and 1980s, with spill cases having been closed. A 1985 spill of #2 fuel oil seeping through the seawall into Whites Creek and Oyster Bay (Spill No. 85-00426), and a 1995 spill of TCE (Spill No. 9925216) remained open with impacts to the site and potentially off-site areas. Multiple environmental investigations and remedial actions have been conducted at the Former Commander Oil Terminal site, associated with several spills (PWGC, 2024), including but not limited to the following:

- **2001 – Quarterly Monitoring** - Conestoga-Rovers & Associates (CRA) documented elevated photoionization detector (PID) readings from soils. CRA also noted a strong southeasterly component towards Whites Creek.
- **2005 – Investigation Plan** - In a 2005 investigation plan from Geologic Services Corporation, historical work to address the seep of #2 fuel oil into Oyster Bay and Whites Creek were documented. These activities began in 1987 and included:
    - injection of grout into the sea wall to prevent seepage;
    - excavation of the sump pit and bolstering of the seawall and lining with enviromat;
    - installation of pressure grout behind the seawall and repairs of cracks; and
    - installation of a product recovery and groundwater pump and treat system.
- **2007 – Sub-Surface Investigation** - In April 2007 Kleinfelder submitted a Sub-Surface Investigation Report in which 18 soil borings were completed along Whites Creek and Oyster Bay Harbor outside the seawall by hand auger. Kleinfelder noted petroleum-like odors in multiple sampling locations.
- **2007 – Non-Ox Pilot Test** - In December 2007 Kleinfelder completed a pilot test for a Nano-Ox injection system for points along the seawall. Kleinfelder found a rebound of visual impacts and concluded that gravity fed injection worked poorly in the area due to low permeable soils and continued the injection into adjacent monitoring wells. There was no significant sustained reduction of VOCs in groundwater as a result of this pilot test.
- **2008 - Baseline Environmental Site Assessment** – Petroleum and CVOC impacts were noted by Environmental Compliance Services, Inc. (ECS) in soil and groundwater throughout the eastern and central portions of the Oil Terminal property, with CVOC impacts primarily in the north-central and central portions of the property. These impacts appeared to be associated with the 1995 surface spill of TCE from a former VRU; the spill case for which had been closed but was subsequently re-opened
- **2009 – Extended Pilot Test** - Kleinfelder conducted an in-situ chemical oxidation pilot program to target petroleum contamination behind the southeastern seawall of the Oil Terminal, with mixed results.

- **2010 – Groundwater Pump and Treat (GWPT) System** – A GWPT system targeting residual liquid-phase petroleum hydrocarbons was initiated consisting of two recovery wells, and oil-water separator, and treatment using granular activated carbon with subsequent discharge through the Oil Terminal property's Outfall #2.
- **2011 – Source Area Remediation and Groundwater Assessment** - Kleinfelder performed a removal of approximately 58 tons of CVOC-impacted soil from the Oil Terminal property to a depth of two feet bgs, though excavation was limited by shallow groundwater and elevated levels of vinyl chloride vapor in the work area air (Kleinfelder, 2011).
- **2012 – AS/SVE System** – Kleinfelder pilot tested an air sparge (AS) and soil vapor extraction (SVE) system as an IRM on the Oil Terminal property. AS wells were installed directly above the pear layer in the alleyway on the north side of the secondary containment wall for the northern bulk storage tanks while SVE wells were installed inside the secondary containment walls and screened down to the peat layer (Kleinfelder, 2012).
- **2013 – VRU and Impacted Soil Removal** - Kleinfelder performed the removal of the VRU on the Oil Terminal property and removed 52 tons of accessible soil beneath and around the VRU. TCE was detected at concentrations greater than the NYSDEC Soil Cleanup Objective for Restricted Use – Industrial in the excavated soil and endpoint samples (Kleinfelder, 2013). Prior to backfilling, a SVE system was proactively installed in this area for potential future use.
- **2019 – Off-Site Investigation Report** - The commercial oyster processing property at 2 Bayview Avenue, referred to as the "Flowers Property" was investigated by VHB on behalf of Commander Terminal Holdings, LLC at the request of NYSDEC. The request for investigation was intended to determine if spills on the Oil Terminal property had adversely affected the Flowers property. TCE and vinyl chloride were present at elevated concentrations near the property line. The VHB investigation found that observed VOC and SVOC impacts in soil and groundwater on the Flowers property were attributable to the adjacent releases at the Oil Terminal (VHB, 2019).
- **2019 – Phase I Environmental Site Assessment (ESA)** - P.W. Grosser Consulting, Inc. (PWGC) conducted a Phase I ESA, identifying multiple Recognized Environmental Conditions (RECs) associated with the Oil Terminal property, including historic industrial use, coal storage, major oil storage, and the two active spills noted above, among others.
- **2020 – Limited Subsurface Investigation** – PWGC noted a UST abandoned in place, and petroleum-related VOC and SVOC impacts in soil and groundwater surrounding and down-gradient of the UST containment dike (PWGC, 2024).

2021-2023 – BCP Remedial Investigation – On behalf of the property owner that was accepted into the BCP, PWGC conducted an RI to delineate site impacts. Intermingled CVOC and petroleum impacts were noted with CVOC impacts extending beneath the peat layer as deep as 25-35 ft bgs. CVOCs in soil vapor were high enough to trigger VI mitigation if buildings were present. One area of concern (AOC), AOC 1 located near the northern Oil Terminal property boundary was investigated to identify potential CVOC impacts. Several VOCs were detected in soil at concentrations exceeding the applicable NYSDEC Standards, including TCE and vinyl chloride. In addition, several SVOCs and metals were detected at concentrations exceeding the applicable NYSDEC Standards. The emerging contaminants PFAS and 1,4-dioxane, as well as pesticides, herbicides, and PCBs were also analyzed in select samples and were not found at concentrations exceeding the applicable NYSDEC Standards (PWGC, 2024). PWGC continues to use oil absorbent materials and bentonite to prevent seepage of NAPL into Whites Creek and the Oyster Bay on a quarterly basis (PWGC, 2023).

3 Site Characterization

The scope of work for the SC was designed to evaluate the magnitude and extent of contaminants migrating off-site from the Former Commander Oil Terminal, assess whether contamination presents a significant threat (or reasonably foreseeable threat) to public health or the environment, and whether interim remedial measures (IRMs) may be warranted. The base scope of work included a geophysical survey, overburden groundwater monitoring well installation, soil sampling, the sampling of the newly installed monitoring wells, sediment sampling, and soil vapor sampling at off-site locations selected by the NYSDEC. The sampling program described in this section is also summarized in **Tables 3-1** through **3-19**. Based on site conditions and/or preliminary indications (or lack of indications) of contamination, the following changes/additions to the scope of work were made:

- Due to volume limitations the sample collected at MW-1 from above the area's bog layer was not analyzed for:
    - TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
    - Organochlorine Pesticides by USEPA Method 8081;
    - Herbicides by USEPA Method 8151; and
    - nor 40 compound TAL PFAS by USEPA Method 1633.

  These analytes were instead collected at MW-4 above the area's bog layer based on consultation with NYSDEC.

- Due to volume limitations the sample collected at MW-1 from above the area's clay layer was not analyzed for:
    - PCBs by USEPA Method 8082;
    - 1,4-Dioxane by USEPA Method 8270 SIM; and
    - 40 compound TAL PFAS by USEPA Method 1633.

  These analytes were instead collected at MW-4 above the area's clay layer based on consultation with NYSDEC.

- At the request of the NYSDEC, three surface water samples and one additional sediment sample were collected in Whites Creek and near the eastern bulkhead of the oil terminal to evaluate potential impacts to surface water from the Former Commander Oil Terminal.

Pace Analytical, an analytical laboratory approved by the New York State Department of Health (NYSDOH) under the Environmental Laboratory Approval Program (ELAP) and certified to perform NYSDEC Analytical Services Protocol (ASP) analyzed all samples collected during the SC under a NYSDEC Callout contract. Analytical results were reported in ASP Category B data packages. A Data Usability Summary Report (DUSR) was prepared for each data package by Validata Chemical Services, Inc. to ensure that the quality of the data was sufficient to evaluate site conditions, site classification, and/or remedial alternatives (**Appendix A**). Sample collection, handling activities, and quality assurance/quality control sampling was conducted in accordance with the NYSDEC-approved Work Plan (Arcadis, 2024) and with Arcadis' Generic Field Activities Plan and Quality Assurance Project Plan, which have previously been submitted to the NYSDEC for work conducted under the NYSDEC State Superfund Standby Engineering Contract No. D009804. Quality assurance/quality control samples including blind field duplicates, matrix spike/matrix spike duplicates, trip blanks, and equipment blanks (for PFAS only) were collected at a rate of 1 per 20 project samples for soil and groundwater. A field duplicate only was collected at a rate of 1 per 20 samples for soil vapor. In addition to Arcadis' Generic Field Activities Plan, sampling was conducted in accordance with the

NYSDEC's Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs Guidance Document, dated April 2023 (NYSDEC, 2023).

3.1 Health and Safety Procedures and Community Air Monitoring

A site-specific Health and Safety Plan was prepared and implemented to address SC activities. The Health and Safety Plan included Job Safety Analyses that outlined the health and safety hazards and controls pertaining to the SC site activities. Daily safety tailgate meetings were also conducted prior to starting work each day. Arcadis also implemented the site-specific Community Air Monitoring Plan (CAMP) during all subsurface investigative activities. The CAMP monitoring was conducted to minimize the possibility that field personnel and the surrounding community were exposed to fugitive dust or vapors during subsurface investigative activities. The CAMP activities included dust and VOC monitoring at one upwind and one downwind location. Each monitoring station collected continuous particulate and VOC data averaged over 15-minute intervals to evaluate potential impacts caused by intrusive activities to local air quality. When elevated dust levels were noted as a result of intrusive site activities, work was stopped, and mitigating actions were taken to reduce dust generation. CAMP action levels were exceeded once during the SC subsurface investigative activities, on October 25, 2024 when an air knife used for soft digging was accidentally turned on and kicked up dust at ground surface. The dust generation was immediately obvious and the air knife was turned off. The sudden burst of heavy dust was at a great enough concentration that the 15-minute average was exceeded at the downwind station despite the incident being near instantaneous. The CAMP data and station locations are provided in **Appendix B**.

3.2 Geophysical Survey/Utility Locating

A geophysical survey was conducted by Ground Penetrating Radar Services (GPRS) on October 22, 2024, at the Site using electromagnetic resistivity (ERM) and ground penetrating radar (GPR) methods to locate subsurface anomalies and utilities in the proposed drilling areas. Tracing of utility line connections from buildings to the mainlines was also conducted as needed and if accessible.

The locations of the identified utilities were marked in the field and a Job Summary Report is provided in **Appendix C**.

On October 24, 2024, despite public and private utility locating, site walk, and hand clearing to five feet bgs prior to drilling, a small private water line and adjacent alarm system conduit were damaged during the installation of MW-3. Work was stopped, coordination with the property owner and ultimately the Town of Oyster Bay was needed to turn off the water service. The property owner contacted a plumbing contractor to repair the water line, which was repaired the same day, with the alarm system repaired within the following two weeks. There were no injuries to the project team or site personnel.

3.3 Decontamination

All non-disposable equipment was thoroughly decontaminated by the driller before being brought to the Site. Augers, drive casings, and other large equipment/drilling tooling were steam cleaned between boreholes. Steam cleaning was done by the drillers within a temporary decontamination pad outside the work zone, south of the oyster processing loading dock. Hand tools and smaller equipment that came in contact with soil/groundwater were decontaminated between locations using potable water and Alconox. Non-disposable equipment used to collect and analyze samples for PFAS followed the current requirements for decontamination and included an additional rinse with laboratory-certified PFAS-free water. Equipment blanks were collected from a macrocore drill shoe and the hand trowel used for collecting surface soil samples. Decontamination water was containerized in 55-gallon drums and staged at the location designated by the property owner for subsequent characterization and off-site disposal.

3.4 Surface Soil Sampling

Surface soil samples were collected at DPT-1, DPT-2, MW-1, and MW-2 as shown on **Figure 1-1** at a depth of 0-2 inches bgs for metals and 0-6 inches bgs for all other analytes using hand collection methods. Surface soil samples were analyzed for:

- Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) Method 8260;
- TCL SVOCs by USEPA Method 8270;
- Target Analyte List (TAL) Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- Polychlorinated Biphenyls (PCBs) by USEPA Method 8082;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 in selective ion monitoring (SIM) mode.

3.5 Soil Borings and Groundwater Well Installation

Eight soil borings were advanced at the locations shown on **Figure 1-1** to the depths outlined below. Soil borings were sampled continuously from ground surface to the final depth using macrocore liners collected via direct push. Soil samples were submitted for laboratory analysis at intervals and for analytes as summarized below. Following completion of the soil borings, grab groundwater samples were collected at four of the soil boring locations utilizing temporarily deployed well screens. These groundwater samples were analyzed as summarized below. The remaining four soil borings were converted into overburden multi-level monitoring wells at the locations shown on **Figure 1-1** to characterize groundwater conditions at three NYSDEC specified intervals. At each monitoring well location one interval was screened across the approximate water table, one interval was installed just below the previously observed 'bog layer', and the last interval was set just above the previously observed clay layer. Due to anticipated tidal influence of approximately 1-2 feet, the exact depths were determined based on field conditions at the time of the work with the goal of allowing adequate water column for sampling regardless of the tidal cycle. The final sampled soil intervals varied dependent on observations made in the field and feedback provided by NYSDEC in the field. The final sampled intervals are provided in **Tables 3-1** through **3-6**. The multi-level monitoring wells were installed using hollow stem auger drilling methods. Exact screened intervals were determined based on observations made in the field and feedback by NYSDEC. Final screened intervals are provided in **Tables 3-13** through **3-18** and in the boring logs in **Appendix D**.

Subsurface soil samples were collected from DPT-1 at a depth of 5-10 ft. bgs and were analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151; and
- PCBs by USEPA Method 8082.

Subsurface soil samples were collected from DPT-2 at a depth of 5-10 ft. bgs and were analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- PCBs by USEPA Method 8082;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Subsurface soil samples were collected from DPT-3 and DPT-4 at a depth of 10-15 ft. bgs and were analyzed for:

- TCL VOCs by United States USEPA Method 8260; and
- SVOCs by USEPA Method 8270.

Two subsurface soil samples were collected from MW-1. One subsurface soil sample was collected above the area's bog layer (5-6 ft. bgs) The sample was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- Cyanide by USEPA Method 9010;
- PCBs by USEPA Method 8082; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Due to volume limitations the sample collected from above the area's bog layer was not analyzed for: TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470, Organochlorine Pesticides by USEPA Method 8081, Herbicides by USEPA Method 8151, nor 40 compound TAL PFAS by USEPA Method 1633. These analytes were instead collected at MW-4 based on consultation with NYSDEC.

The sample collected above the area's clay layer (20-22.5 ft. bgs) at MW-1 was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081; and
- Herbicides by USEPA Method 8151.

Due to volume limitations the sample collected from above the area's clay layer was not analyzed for: PCBs by USEPA Method 8082, 1,4-Dioxane by USEPA Method 8270 SIM, nor 40 compound TAL PFAS by USEPA Method 1633. These analytes were instead collected at MW-4 based on consultation with NYSDEC.

Up to two subsurface soil samples were collected from MW-2, MW-3, and MW-4 at depths determined based on field observations (visual impacts, staining, odors, PID readings). The depths for collected samples are provided in **Tables 3-1** through **3-6**. The samples were analyzed for:

- TCL VOCs by United States USEPA Method 8260.

Based on instruction from the NYSDEC, additional samples were collected for the following analysis. At MW-4 samples were additionally analyzed for:

- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- PCBs by USEPA Method 8082;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Each multi-level well was constructed of 1-inch inner diameter (I.D.) PVC casing and screen. Monitoring wells were constructed with 2-foot-long sections of schedule 40 PVC 0.010-inch slot screen and PVC riser. Screen lengths were reduced from 3-foot-long sections to 2 feet to better ensure a good seal between sampled intervals. A sand filter pack was placed in the annular space around each well screen interval to approximately two feet above the top of the screen. A bentonite seal was then placed above the filter pack and extended to at least one foot below the bottom of the screen above it. The annular space above filter pack for the uppermost interval at the water table was then filled with a bentonite seal to two feet below grade. The remaining annular space was filled with neat cement and will be completed with a flush-mount protective cover. The well construction details for the four permanent multi-level wells are provided in **Appendix D**.

Between October 28 and 29, 2024 all monitoring wells were developed to minimize turbidity in groundwater and to improve their hydraulic properties.

3.6 Sediment Sampling

Two sediment samples were initially planned to be collected along Whites Creek in the Work Plan. Based on feedback from NYSDEC Region 1 an additional location was added along the northeast side of the Former Commander Oil Terminal's seawall. The actual sediment sample locations were adjusted in the field based on accessibility and are shown on **Figure 1-1**. Sediment samples were collected on October 29, 2024, along Whites Creek at low tide using a stainless-steel hand auger at sampling intervals of 6-12 inches and 12-24 inches bgs. Each sample was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- PCBs by USEPA Method 8082
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

3.7 Groundwater Sampling

Between November 11 and 12, 2024, at least two weeks after well installation and development, the four new multi-level wells were sampled during one groundwater monitoring event. Prior to groundwater purging and sampling, the depth to water and light non-aqueous phase liquid (LNAPL), if present, in each monitoring well was measured using an
oil/water interface probe and recorded. No LNAPL was observed during the November sampling event. Groundwater sampling was conducted in accordance with the USEPA Low-Flow/Low-Purge Sampling Protocol (USEPA, 2017). Groundwater purging rates were lowered to the extent practicable to prevent significant drawdown of the groundwater level in each monitoring well. Water levels were then monitored during sampling to verify that excessive draw down was not occurring. Sampling logs for the monitoring wells are provided in **Appendix E.**

Groundwater collected from the first interval at MW-1 (MW-1S) was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- PCBs by USEPA Method 8082;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM

Groundwater collected from the second interval at MW-1 (MW-1M) was analyzed for:

- TCL VOCs by United States USEPA Method 8260;

Groundwater collected from the third interval at MW-1 (MW-1D) was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- PCBs by USEPA Method 8082;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Groundwater collected from the first interval at MW-2 (MW-2S) was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Groundwater collected from the second interval at MW-2 (MW-2M) was analyzed for:

- TCL VOCs by United States USEPA Method 8260.

Groundwater collected from the third interval at MW-2 (MW-2D) was analyzed for:

- TCL VOCs by United States USEPA Method 8260.

Groundwater collected from the first interval at MW-3 will be analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- Organochlorine Pesticides by USEPA Method 8081;
- Herbicides by USEPA Method 8151;
- PCBs by USEPA Method 8082;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Additionally, due to high turbidity in the groundwater sample, a dissolved metals sample analyzed by USEPA Method 6010 including mercury by USEPA Method 7470 was additionally submitted for MW-3S.

Groundwater collected from the second interval at MW-3 (MW-3M) was analyzed for:

- TCL VOCs by USEPA Method 8260.

Groundwater collected from the third interval at MW-3 (MW-3D) was analyzed for:

- TCL VOCs by USEPA Method 8260.

Groundwater collected from the first interval at MW-4 (MW-4S) was analyzed for:

- TCL VOCs by USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- Cyanide by USEPA Method 9010; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

The groundwater sample collected from MW-4S was intended to be analyzed for 40 compound TAL PFAS by USEPA Method 1633, however due to a laboratory error it was instead analyzed for Cyanide by USEPA Method 9010.

Groundwater collected from the second interval at MW-4 (MW-4M) was analyzed for:

- TCL VOCs by USEPA Method 8260.

Groundwater collected from the third interval at MW-4 (MW-4D) was analyzed for:

- TCL VOCs by USEPA Method 8260.

Additionally, groundwater collected from MW-1S was also analyzed for Hexavalent Chromium by USEPA Method 7196 based on its proximity to the Former Commander Oil Terminal.

At the final depth of each DPT soil boring a temporary well screen was deployed and purged until turbidity was as low as practically feasible, at which point a grab groundwater sample was collected as follows:

Groundwater collected from DPT-1 (screened 11-13 ft. bgs) and DPT-2 (screened 5-7 ft. bgs) were analyzed for:

- TCL VOCs by USEPA Method 8260; and
- SVOCs by USEPA Method 8270.

Groundwater collected from DPT-1 and DPT-2 screened at 15-17 ft bgs were analyzed for:

- TCL VOCs by USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

Groundwater collected from DPT-3 (screened 9.5-11.5 ft. bgs) and DPT- 4 (screened 10-12 ft. bgs) were analyzed for:

- TCL VOCs by USEPA Method 8260;
- SVOCs by USEPA Method 8270.

Groundwater collected from DPT-3 and DPT- 4 screened at 20-22 ft were analyzed for:

- TCL VOCs by USEPA Method 8260;
- SVOCs by USEPA Method 8270.

Sampling logs for the DPT grab groundwater samples are provided in **Appendix E.**

3.8 Surface Water Sampling

Based on a call with NYSDEC on October 28, 2024, Arcadis was instructed to collect three surface water samples to be paired with the sediment sample locations proposed by NYSDEC. Locations were adjusted on the field based on access and the actual sample locations are shown on **Figure 1-1**. Surface water sampling was completed on October 29, 2024, along Whites Creek at low tide by the direct filling of sample containers.

Each sample was analyzed for:

- TCL VOCs by United States USEPA Method 8260;
- SVOCs by USEPA Method 8270;
- TAL Metals by USEPA Method 6010 including mercury by USEPA Method 7470;
- Cyanide by USEPA Method 9010;
- 40 compound TAL PFAS by USEPA Method 1633; and
- 1,4-Dioxane by USEPA Method 8270 SIM.

3.9 Soil Vapor Assessment

Between October 22 and 23, 2024 two soil vapor probes were installed using direct push drilling methods to a depth of three ft bgs based on observations of groundwater at approximately four ft bgs at both locations as shown on **Figure 1-1**. Each soil vapor point was constructed of a six-inch small-diameter stainless steel screen attached to polyethylene tubing placed at the bottom of the borehole. Each point was completed with a flush-mount cover and sealed. Sampling Logs for the soil vapor locations are provided in **Appendix F**.

On November 12, 2024, soil vapor samples were collected from each of the two soil vapor probes concurrently using sampling procedures in accordance with Arcadis' Generic SAP for NYSDEC Standby Engineering Contract D009804 and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006, and subsequent updates. A tracer gas test was performed at each sub-slab soil vapor sampling location in accordance with NYSDOH, 2006 to confirm that the soil vapor probes were constructed in a manner that minimize the entrainment of ambient air into the soil vapor samples. Helium was used as the tracer gas. Air samples were collected using batch-certified 6-liter summa canisters equipped with pre-calibrated flow controllers. Soil vapor samples were collected over a 2-hour time period. Samples from each monitoring point were analyzed for VOCs by USEPA Method TO-15.

3.9.1 Tracer Gas Testing

Prior to sampling, a tracer gas test was performed in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006) to confirm that the soil vapor probes were constructed in a manner that minimize the entrainment of ambient air into the soil vapor samples. The integrity of all probe seals was confirmed, via helium tracer gas concentrations below 10 percent. The 6-liter sampling canister with a vacuum gauge and flow controller was then connected to the sample tubing and the points sampled.

3.9.2 Sampling

Air samples were collected from both probes (SG-1 and SG-2) using a Summa canister sampling train, which consisted of a summa canister, flow controller, particulate filter, pressure gage, and associated fittings. A duplicate sample was collected from SG-1 using a T-fitting to allow for representative air to be collected simultaneously for both cannisters. An ambient air sample was collected upwind of the probes as shown on **Figure 1-1**. All canisters were batch-certified as analyte-free by the analytical laboratory prior to use. Flow regulators calibrated and supplied by the analytical laboratory were used to allow for continuous sampling over the 2-hour sampling period. Each flow regulator was equipped with a filter to prevent particulate matter from entering the canister. Soil vapor samples were collected according to the procedure outlined in the NYSDEC-approved Work Plan (Arcadis, 2024). Analytical Results for soil vapor are presented in **Table 3-19**.

3.10 Investigation-Derived Waste

Soil cuttings, decontamination water, well development water, and purge water generated during the SC was contained in U.N.-approved 55-gallon drums pending full Resource Conservation and Recovery Act (RCRA) waste characterization analysis. Drums were staged near the loading dock north of the office trailers as per property owner instruction. A photo of the staged drums is included in the photo log in **Appendix G**. Based on waste characterization data both the solid and liquid waste stream were determined to be non-hazardous. On January 16, 2025, Veolia Environmental Services removed and transported the eight drums off-site for disposal at Veolia ES Technical Solutions in Middlesex New Jersey. A copy of the waste manifest is provided in **Appendix H**.

3.11 Survey

On October 29 and 30, 2024, Hunt EAS, DPC completed a site survey, recording the elevation and location of each new groundwater monitoring well installed during the SC field activities to the nearest 0.01 foot vertically and 0.1 foot horizontally. In addition, the locations of all soil borings, soil vapor probes, sediment/surface water sampling locations, and other Site features were also surveyed to the nearest foot horizontally. The surveyed data was then added to the ArcGIS base map for the Site.

3.12 Data Validation

Analytical data generated during the investigation are accompanied by NYSDEC Analytical Services Protocol deliverable packages. The Category B/USEPA Level IV data deliverables were validated by Validata Chemical Services, Inc. The validation includes, but may not be limited to, the following items:

- Adherence to specific holding times;
- Laboratory blank-detected constituents;
- Matrix spike/matrix spike duplicate precision and accuracy; and
- Field duplicate precision.
- Pertinent field sampling records (i.e., field sampling logs, chain of custody records) were reviewed in conjunction with the laboratory deliverables for accuracy, precision, completeness, overall quality of data, and absence of transcription errors.

Sample processing was conducted in general compliance with the analytical protocol requirements and quality criteria for the data collected during the investigation, however Validata Chemical Services, Inc. flagged the following results as potentially not being compliant:

- SVOC results for 3,3'-dichlorobenzidine and pyridine in SDG 24J3305 for out-of-range laboratory control sample recovery outliers;
- VOC results for hexachlorocyclopentadiene in SDG 24J3305 due to low MS recovery;
- Cyanide results in SDG 24J3305 due to laboratory analysis after the 14-day holding time;
- SVOC results for 3,3'-dichlorobenzidine, pyridine, and Caprolactam in SDG 24J3350 for out-of-range laboratory sample recovery outliers;
- Cyanide results in SDG 24J3350 due to laboratory analysis after the 14 day holding time;
- SVOC results for 3,3'-dichlorobenzidine, pyridine, and Caprolactam in SDG 24J3715 for out-of-range laboratory sample recovery outliers;

- Cyanide results in SDG 24J3715 due to laboratory analysis after the 14-day holding time;
- VOC results for carbon disulfide and ethanol in SDG 24K0186 due to low MS recovery;
- SVOC results for 3,3'-dichlorobenzidine, hexachlorocyclopentadiene, pyridine, 2,3,4,6-tetrachlorophenol, 2,4-dinitrophenol, 4-nitrophenol, phentachlorophenol, pyridine, and 2,4,6-trichlorophenol in SDG 24K01866 for out-of-range laboratory sample recovery outliers;
- and VOC results for cis-1,2-dichloroethene in SDG L2466371 due to a dilution performed, the original results were rejected in favor of the dilution results.

Further details and explanation are provided in the DUSR narratives in **Appendix A**.

4 Field Observations

During the SC the Site was observed to be split in terms of use with the eastern portion of the Site being used for commercial oyster fishing activities and associated office space. The western portion of the Site is subdivided and leased for storage and/or staging grounds for multiple contracting firms. These tenants were observed to store equipment and vehicles, as well as operate some portion of their businesses from these areas. The fencing shown on **Figure 1-1** illustrates how the property is divided into sub sections to delineate usage. The ground cover across the site is generally compacted sand backfill with some pavement in the western portion, specifically in the vicinity of the MW-4 multi-level well.

As shown in the boring logs in **Appendix D**, overburden soils were observed from the surface to be primarily fill and gravelly sands with varying amounts of silt. The previously identified peat layer was observed between 5 and 7 ft. bgs. and varied in thickness from six inches to three feet, consistent with previous investigations. Soil below the peat layer, where observed, was noted to be silty sands with varying amounts of gravel with increasing amounts of fines with depth. The clay layer identified in previous investigations was observed at variable depths ranging from 21 to 29 feet bgs, consistent with those investigations. The clay layer itself was observed to be proceeded by a relatively abrupt shift from silty sands with gravel to very fine sand/silt with interbedded clay lenses. Representative photos of Site soils are provided in **Appendix G**. Odors and low level PID readings were noted in a few locations including DPT-2, DPT-3, and the MW-4 multi-level well. PID readings and odor observations were generally observed immediately above the peat layer and to some degree within the peat layer itself. The odors at DPT-2 and DPT-3 were described to be petroleum-like and the odors at the MW-4 multi-level well were described to be rubber-like. In addition, there were no NAPLs, nor sheens observed during the boring and monitoring well installation completed in the SC.

Groundwater was observed to range from 2.5 to 6 ft. bgs and appears to generally flow to the east as shown on **Figures 2-1** and **2-2**. Groundwater has historically been evaluated at the Former Commander Oil Terminal in terms of shallow groundwater above the peat layer and deeper groundwater below the peat layer. Groundwater appeared to flow similarly in both defined units with the groundwater below the peat layer appearing to be more tidally influenced as groundwater below the peat layer was observed to be lower than groundwater above the peat layer during low tide. This observation is consistent with historical tidal studies completed at the Site (NYSDEC, 2024). The limited number of wells available for measurement during the SC synoptic water level round limits the potential for more detailed evaluation. Based on field readings collected during groundwater sampling groundwater above the peat layer was observed to be close to neutral or slightly alkaline, and oxidation-reduction potentials (ORP) suggest it to be a reducing environment. Meanwhile groundwater collected below the peat layer and above the clay layer was observed to be slightly acidic with ORP values suggesting an oxidizing environment. No sheens were observed in purge water during groundwater sampling.

Sediment collected from Whites creek, south of the Former Commander Oil Terminal was generally observed to be fine to medium sand with varying amounts of silt. Strong petroleum-like odors were observed at SDMT-1 at approximately 1 ft. bgs. Strong petroleum-like odors, sheens, and NAPL droplets were observed at SDMT-2 also

at approximately 1 ft. bgs. The sea wall lining the south and eastern side of the Former Commander Oil Terminal is known to have NAPL leaking from between sea wall blocks (NYSDEC, 2024). Absorbent socks were observed in the area which have historically been used to reduce sheens and NAPL seepage from this area (NYSDEC, 2024). The additional SDMT-3 sample location was the furthest out from Whites Creek and was collected from under the dock along the southeastern corner of the Former Commander Oil Terminal sea wall. The sediment collected from this location was found to be primarily fine sand with increasing amounts of silt with depth. There was a slight chemical-like odor noted from 0.5 to 1 ft bgs, and this odor shifted to a strong petroleum-like odor from 1 to 2 ft. bgs. Boring logs for the sediment samples are provided in **Appendix D**. The observed impacts in the sediment collected during the SC are consistent with historical observations.

5 Laboratory Results

Laboratory results for the samples collected during the SC are summarized in **Tables 3-1** through **3-19**. A Figure showing soil exceedances is provided in **Figure 5-1.** Soil sample results are being compared to 6 NYCRR Part 375 Unrestricted Use, Commercial Use, Industrial Use, and Protection of Groundwater SCOs. For soil samples, only VOC compounds exceeded a Protection of Groundwater SCO in subsurface soil and no soil or sediment sample result exceeded a corresponding Commercial Use nor Industrial Use SCOs. As such, only Unrestricted Use SCOs are discussed below except where applicable for subsurface VOC results. A Figure showing sediment sampling results is provided in **Figure 5-2**. Sediment sample results are being compared to the NYSDEC's Saltwater Sediment Guidance Values (Table 6 from Screening and Assessment of Contaminated Sediment, NYSDEC, 2014). A Figure showing groundwater and surface water exceedances is provided in **Figure 5-3**. Groundwater sample results are being compared to NYSDEC TOGS 1.1.1 General Ambient Groundwater Standards. Surface water sample results are being compared to NYSDEC TOGS 1.1.1 General Ambient Groundwater Standards and Water Class SC Standards for saline water fish, shellfish, and wildlife survival and propagation. In instances where a given analyte had a Standard for both saline waters fish survival and fish propagation, the more conservative value is presented. A Figure showing soil vapor detections is provided in **Figure 5-4**. Analytical laboratory reporting forms for samples collected during the investigation are provided in **Appendix I**.

5.1 Surface Soil

5.1.1 VOCs

VOCs were not detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples.

5.1.2 SVOCs

SVOCs were not detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples.

5.1.3 Metals

Three metals were detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples:

- Copper was detected at 69 mg/kg at DPT-2 (0-0.2 ft. bgs) and 94 mg/kg at MW-2 (0-0.2 ft. bgs);
- Lead was detected at 120 mg/kg at DPT-2 (0-0.2 ft. bgs); and
- Zinc was detected at 310 mg/kg at DPT-2 (0-0.2 ft. bgs).

5.1.4 Cyanide

Cyanide was not detected in any surface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples. The surface soil sample collected at MW-2 (MW-2(0-0.2 ft. bgs) was rejected due to laboratory analysis after the 14-day hold time. The reported concentration does not vary significantly from other unrejected project sample results. There is no indication that a higher value would have been calculated had the sample been analyzed within the required hold time.

5.1.5 Pesticides

Three pesticides were detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples:

- Dieldrin was detected at 0.084 mg/kg at DPT-1 (0-0.5 ft. bgs), 0.011 mg/kg (estimated) at DPT-2 (0-0.5 ft. bgs), and 0.018 mg/kg (estimated, 0.018 mg/kg (estimated) in the duplicate) at MW-1 (0-0.5 ft. bgs);
- 4,4'-DDE was detected at 0.024 mg/kg (estimated, 0.025 mg/kg (estimated) in the duplicate) at MW-1 (0-0.5 ft. bgs); and
- 4,4'-DDT was detected at 0.029 mg/kg (estimated) at DPT-1 (0-0.5 ft. bgs), 0.011 mg/kg (estimated) at DPT-2 (0-0.5 ft. bgs), and 0.051 mg/kg (0.060 mg/kg in the duplicate) at MW-1 (0-0.5 ft. bgs).

5.1.6 Herbicides

Herbicides were not detected in any surface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples.

5.1.7 PCBs

PCBs were not detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected surface soil samples.

5.1.8 PFAS

PFAS were not detected in any surface soil sample at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use Guidance Values (GVs) in the collected surface soil samples.

5.1.9 1,4-Dioxane

1,4-dioxane was not detected in any surface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO in the collected surface soil samples.

5.2 Subsurface Soil

5.2.1 VOCs

Two VOC compounds were detected at one location in subsurface soil at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs:

- M,p-Xylene was detected at 0.34 mg/kg (estimated) at DPT-2 (5-10 ft. bgs); and
- Xylenes were detected at 0.56 mg/kg at DPT-2 (5-10 ft. bgs).

Four VOC compounds were detected at two locations in subsurface soil at concentrations greater than both the corresponding 6 NYCRR Part 375 Unrestricted Use and Protection of Groundwater SCOs:

- Acetone was detected at 0.36 mg/kg (estimated) at DPT-1 (5-10 ft. bgs);
- Benzene was detected at 0.10 mg/kg (estimated) at DPT-1 (5-10 ft. bgs) and 0.38 mg/kg at DPT-2 (5-10 ft. bgs);
- Cis-1,2-dichloroethene was detected at 1.4 mg/kg at DPT-2 (5-10 ft. bgs); and
- Methyl ethyl Ketone (2-butanone) was detected at 0.56 mg/kg (estimated) at DPT-2 (5-10 ft. bgs).

5.2.2 SVOCs

One SVOC compound was detected in a subsurface soil sample at a concentration greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO:

- Indeno (1,2,3-c,d) pyrene was detected at 0.52 mg/kg at DPT-2 (5-10 ft. bgs).

Indeno (1,2,3-c,d) pyrene was also identified at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO in the previous off-site investigation (VHB, 2019).

5.2.3 Metals

Two metals were detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected subsurface soil samples:

- Copper was detected at 57 mg/kg at MW-4 (5-6.5 ft. bgs); and
- Lead was detected at 67 mg/kg at MW-4 (5-6.5 ft. bgs).

5.2.4 Cyanide

Cyanide was not detected in any subsurface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected subsurface soil samples. The subsurface soil samples collected at DPT-2 (5-10 ft. bgs), DPT-2 (5-10 ft. bgs), MW-1 (5-6 ft. bgs), and MW-1 (20-22.5 ft. bgs) were rejected due to laboratory analysis after the 14day hold time. The reported concentrations do not vary significantly from unrejected sample results. There is no indication that a higher value would have been calculated had the samples been analyzed within the required hold time.

5.2.5 Pesticides

Pesticides were not detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs in the collected subsurface soil samples.

5.2.6 Herbicides

Herbicides were not detected in any subsurface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs.

5.2.7 PCBs

PCBs were not detected in any subsurface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCOs.

5.2.8 PFAS

PFAS were not detected at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use Guidance Values (GVs) in the collected subsurface soil samples.

5.2.9 1,4-Dioxane

1,4-dioxane was not detected in any subsurface soil sample collected during the SC. Therefore, there were no concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO.

5.3 Sediment

5.3.1 VOCs

Three VOCs were detected at one location with concentrations greater than the corresponding Saltwater Sediment Guidance Value for a Class A Sediment:

- Ethylbenzene was detected at 0.41 mg/kg at SDMT-1 (1-2 ft. bgs);
- m,p-Xylene was detected at 0.23 mg/kg at SDMT-1 (1-2 ft. bgs); and
- Xylenes were detected at 0.23 mg/kg at SDMT-1 (1-2 ft. bgs).

5.3.2 SVOCs

Samples from three locations contained total polycyclic aromatic hydrocarbons (PAHs) at concentrations greater than the corresponding Saltwater Sediment Guidance Value for a Class A Sediment:

- 7.76 mg/kg at SDMT-1 (1-2 ft. bgs);
- 4.69 mg/kg at SDMT-2 (1-2 ft. bgs); and
- 6.84 mg/kg at SDMT-3 (0.5-1 ft. bgs).

5.3.3 Metals

Three metals were detected in samples from two locations at concentrations greater than the corresponding Saltwater Sediment Guidance Value for a Class A Sediment:

- Arsenic was detected at 14 mg/kg at SDMT-3 (1-2 ft. bgs);
- Copper was detected at 38 mg/kg at SDMT-1 (0.5-1 ft. bgs) and 57 mg/kg at SDMT-1 (1-2 ft. bgs);
- Lead was detected at 57 mg/kg at SDMT-1 (0.5-1 ft. bgs), 270 mg/kg at SDMT-1 (1-2 ft. bgs), 84 mg/kg at SDMT-2 (1-2 ft. bgs), and 57 mg/kg at SDMT-3 (0.5-1 ft. bgs); and
- Mercury was detected at 0.37 mg/kg at SDMT-1 (1-2 ft. bgs) and 0.32 mg/kg at SDMT-3 (0.5-1 ft. bgs).

One metal was detected at one location at a concentration greater than the corresponding Saltwater Sediment Guidance Value for a Class B Sediment:

- Lead was detected 270 mg/kg at SDMT-1 (1-2 ft. bgs).

5.3.4 Cyanide

Cyanide was not detected in any of the sediment samples collected during the SC.

5.3.5 Pesticides

None of the samples collected during the SC contained pesticides at concentrations exceeding the corresponding Saltwater Sediment Guidance Values for Class A Sediment.

5.3.6 Herbicides

None of the samples collected during the SC contained herbicides at concentrations exceeding the corresponding Saltwater Sediment Guidance Values for Class A Sediment.

5.3.7 PCBs

One sample contained a concentration of total PCBs greater than the corresponding Saltwater Sediment Guidance Value for a Class A Sediment:

- 0.39 mg/kg at SDMT-1 (1-2 ft. bgs).

5.3.8 PFAS

There are no Saltwater Sediment Guidance Values for PFAS. However, Perfluorooctanoic acid (PFOA) was not detected in any of the sediment samples collected during the SC, and Perfluorooctanesulfonic acid (PFOS) was only detected in in two of the SC samples, at low level concentrations (significantly lower than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO).

5.3.9 1,4-Dioxane

There are no Saltwater Sediment Guidance Values for 1,4-dioxane. However, 1,4-dioxane was not detected in any of the sediment samples collected during the SC.

5.4 Groundwater

5.4.1 VOCs

Thirteen VOC compounds at four locations were detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standards in groundwater samples collected:

- 1,2,4-trimethylbenzene was detected at 24 µg/l at DPT-2 (5-7 ft. bgs);
- 1,3,5-trimethylbenzene was detected at 5.8 µg/l at DPT-2 (5-7 ft. bgs);
- Benzene was detected at 28 µg/l at DPT-2 (5-7 ft. bgs) and 19 µg/l (non-detect in the duplicate) at MW-1S (5-7 ft. bgs);
- Cis-1,2-dichloroethene was detected at 7.3 µg/l at DPT-2 (5-7 ft. bgs);
- Ethylbenzne was detected at 14 µg/l at DPT-2 (5-7 ft. bgs);
- Isopropylbenzene was detected at 5.2 µg/l at DPT-2 (5-7 ft. bgs);
- P-cymene was detected at 13 µg/l at DPT-2 (5-7 ft. bgs) and 14 µg/l (non-detect in the duplicate) at MW-1S (5-7 ft. bgs);
- Tert-butyl methyl ether was detected at 13 µg/l at DPT-2 (5-7 ft. bgs), 16 µg/l (0.21 µg/l (estimated) in the duplicate) at MW-1S (5-7 ft. bgs), 12 µg/l at MW-1M (15-17 ft. bgs), 7.4 µg/l at MW-3S (5-7 ft. bgs);
- Tetrachloroethene was detected at 40 µg/l at DPT-2 (5-7 ft. bgs);
- Vinyl chloride was detected at 31 µg/l at DPT-2 (5-7 ft. bgs); and
- Xylenes were detected at 33 µg/l at DPT-2 (5-7 ft. bgs).

5.4.2 SVOCs

One SVOC was detected at a concentration greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standard in the collected groundwater samples:

- Phenol was detected at 1.8 µg/l at DPT-2 (5-7 ft. bgs).

5.4.3 Metals

Five metals at three locations were detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standard in the collected groundwater samples:

- Antimony was detected at 28 µg/l, dissolved at MW-3S (5-7 ft. bgs) (non-detect in the total metals sample);
- Iron was detected at 29000 µg/l at MW-1S (5-7 ft. bgs), 560 µg/l at MW-1D (19-21 ft. bgs), and 17,000 µg/l (140 µg/l, dissolved) at MW-3S (5-7 ft. bgs);
- Magnesium was detected at 36,000 µg/l at MW-3S (5-7 ft. bgs) (35,000 µg/l, dissolved);
- Manganese was detected at 840 µg/l at MW-1S (5-7 ft. bgs) and 8,700 µg/l (8,200 µg/l, dissolved) at MW-3S (5-7 ft. bgs);
- Sodium was detected at 740,000 µg/l at MW-1S (5-7 ft. bgs), 23,000 µg/l at MW-1D (19-21 ft. bgs), and 390,000 µg/l (370,000 µg/l, dissolved) at MW-3S (5-7 ft. bgs).

5.4.4 Hexavalent Chromium

Hexavalent chromium was not detected above the reporting limit of 4 µg/l in the sample from MW-1S (5-7 ft. bgs). Therefore, the concentration was not greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standard.

5.4.5 Cyanide

Cyanide was not detected in any groundwater sample collected during the SC. Therefore, there were no concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standard in the collected groundwater samples.

5.4.6 Pesticides

Pesticides were not detected in any groundwater sample collected during the SC. Therefore, there were no concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standards in the collected groundwater samples.

5.4.7 Herbicides

Herbicides were not detected in any groundwater sample collected during the SC. Therefore, there were no concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standards in the collected groundwater samples.

5.4.8 PCBs

PCBs were not detected in any groundwater sample collected during the SC. Therefore, there were no concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standards in the collected groundwater samples.

5.4.9 PFAS

Two PFAS were detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Guidance Values in the collected groundwater samples;

- Perfluorooctanesulfonic acid (PFOS) was detected at 4.7 ng/l at DPT-1 (15-17 ft. bgs), 3.2 ng/l at DPT-2 (15-17 ft. bgs), 18 ng/l at MW-1S (5-7 ft. bgs), 2.8 ng/l at MW-2S (5-7 ft. bgs), and 3.7 ng/l at MW-3S (5-7 ft. bgs); and
- Perfluorooctanoic acid (PFOA) was detected at 13 ng/l at DPT-1 (15-17 ft. bgs), 9.9 ng/l at DPT-2 (15-17 ft. bgs), 27 ng/l at MW-1S (5-7 ft. bgs), 12 ng/l at MW-1D (19-21 ft. bgs), and 7.5 ng/l at MW-3S (5-7 ft. bgs).

Two PFAS samples were collected as equipment blanks on non-disposable equipment used during sample collection to verify that reused equipment was not contributing to detected levels of PFAS. PFAS was not detected in either of the equipment blank samples.

5.4.10 1,4-Dioxane

1,4-dioxane was detected at a concentration greater than the corresponding NYSDEC TOGS 1.1.1 General Ambient Groundwater Standard at one groundwater sample;

- 0.39 µg/l at MW-1S (5-7 ft. bgs).

5.5 Surface Water

5.5.1 VOCs

VOCs were not detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 Class GA Groundwater Standards nor Water Class SC Standards for saline surface water (fish, shellfish, and wildlife survival and propagation) in the surface water samples collected during the SC.

5.5.2 SVOCs

SVOCs were not detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 Class GA Groundwater Standards nor Water Class SC Standards for saline surface water (fish, shellfish, and wildlife survival and propagation) in the surface water samples collected during the SC.

5.5.3 Metals

Three metals were detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 GA Groundwater Standards in the SC surface water samples:

- Iron was detected at 3,400 µg/l at SW-3;
- Magnesium was detected at 49,000 µg/l at SW-1, 59,000 µg/l (58,000 µg/l, duplicate) at SW-2, and 670,000 µg/l at SW-3; and
- Sodium was detected at 390,000 µg/l at SW-1, 520,000 µg/l (470,000 µg/l, duplicate) at SW-2, and 6,600,000 µg/l at SW-3.

Elevated concentrations of magnesium and sodium can largely be attributed to the brackish nature of Whites Creek and the water of the Long Island Sound.

Three metals were detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 Water Class SC Standard for saline surface water (fish, shellfish, and wildlife survival and propagation) in the SC surface water samples:

- Copper was detected at 39 µg/l at SW-3;
- Lead was detected at 20 µg/l at SW-3; and
- Nickel was detected at 11 µg/l at SW-3.

5.5.4 Cyanide

Cyanide was not detected in any surface water sample collected during the SC. Therefore, there were no concentrations greater than the corresponding NYSDEC TOGS 1.1.1 GA Groundwater Standard nor the Water Class SC Standard for saline surface water (fish, shellfish, and wildlife survival and propagation) in the surface water samples collected during the SC.

5.5.5 PFAS

PFAS were not detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 GA Guidance Values nor the Water Class SC Guidance Value for saline surface water (fish, shellfish, and wildlife survival and propagation) for PFOS in the surface water samples collected during the SC.

5.5.6 1,4-Dioxane

1,4-dioxane was not detected at concentrations greater than the corresponding NYSDEC TOGS 1.1.1 GGA Guidance Value nor the Water Class SC Guidance Value for saline waters fish survival and fish propagation in the collected surface water samples.

5.6 Soil Vapor

5.6.1 VOCs

As shown in **Table 3-19** and **Figure 5-4**, soil vapor samples collected from both soil vapor probes as well as the ambient air sample collected upwind of the SC area, had low-level detections of various VOCs. Some of the detected VOCs were detected in the ambient air sample as well as the samples collected from the soil vapor probes. This suggests that these compounds may be associated with ambient Site conditions and not the potential intrusion of vapors from underlying soils. These detections of compounds in the ambient air sample do not affect the qualitative comparison to the NYSDOH Matrices.

Additionally, the laboratory did not meet the target reporting limits for all analytes, however the provided reporting limits do not impact the data quality nor any potential drawn conclusions. For this SC, soil vapor samples are used as a general screening tool to evaluate the potential need for vapor mitigation in future building construction, as they are not sub-slab samples nor are they coupled with indoor air. The NYSDOH Guidance Document (NYSDOH 2006) focuses on 21 VOC analytes when evaluating soil vapor and indoor air quality concurrently, using the Matrix guidance (A through F). Soil vapor samples collected as part of the SC were analyzed using the TO-15 analyte list. Without paired indoor air data, the Matrix guidance cannot be used to its full potential, but comparing the SC soil vapor results can indicate what action would be required if there were a corresponding indoor air sample. Two analytes were detected at concentrations which would have the potential to require action if they had been collected from a sub slab vapor point within a building:

- Trichloroethene (TCE) in both SG-1 (97.8 µg/m^3 (duplicate, 94.6 µg/m^3) and SG-2 (63.4 µg/m^3); and
- cis-1,2-dichloroethene in both SG-1 (361 µg/m^3 (duplicate, 324 µg/m^3) and SG-2 (7.06 µg/m^3).

6 Summary

The objective of the SC was to evaluate the extent of off-site migration of contamination from the Former Commander Oil Terminal Site to the South. Sample locations and analyte lists were selected by NYSDEC to evaluate specific soil and groundwater units of interest based on historical off-site work completed by VHB (VHB, 2019) and known spills from the Former Commander Oil Terminal Site (NYSDEC, 2024).

Soils collected from the Site suggest that potential impacts to the off-site area evaluated in this SC are limited in magnitude and extent. Impacts to soil potentially related to off-site migration are primarily limited to soils directly above the peat layer. A few VOCs identified during the SC as potentially being related to oil terminal activities were noted at concentrations above the 6 NYCRR Part 375 Unrestricted Use SCOs but not at concentrations which would indicate widespread migration of contamination. Four VOC compounds exceeded the corresponding 6 NYCRR Part 375 Protection of Groundwater SCOs (Acetone, Benzene, cis-1,2-dichloroethene, and 2-Butanone) at two locations. Other than the VOCs mentioned, no other soil sample results exceeded a SCO other than Unrestricted Use. Some of the exceeding VOC compounds were also detected during the previous off-site investigation, at similar magnitudes (VBH, 2019). Other exceedances of Unrestricted SCOs were only observed in collected surface soil samples. These exceedances included minor metals and pesticides exceedances which have the potential to be related to current use of the off-site property. No emergent contaminants, PFAS nor 1,4-dioxane, were detected at concentrations greater than the applicable guidance values. None of the SC samples contained contaminants at concentrations exceeding Commercial Use nor Industrial Use SCOs.

Groundwater sampled as part of the SC also showed a limited extent of impacts when compared to the NYSDEC TOGS 1.1.1 General Ambient Standards. Various VOCs were detected in each groundwater sample, but few analytes exceed the corresponding Standards. The sample collected at DPT-2 (5-7 ft. bgs) had the most VOC exceedances with some of the analytes being previously detected in off-site investigation or Former Commander Oil Terminal sampling activities. Petroleum products stored and used in the contractor work area in the vicinity of DPT-2 could also be a contributing factor to the observed impacts and elevated levels of VOCs. Phenol was the only SVOC exceeding the corresponding General Ambient Standard which had also been identified historically by VHB during Off-site investigative activities (VHB, 2019). Some metals were detected at concentrations exceeding General Ambient Standards; however, the identified metals are commonly found in groundwater at elevated concentrations, especially in coastal environments. Emerging contaminant sampling in groundwater suggests relatively widespread low-level impacts of PFAS in groundwater in the off-site area with concentrations exceeding the applicable guidance value at all sampled groundwater locations. 1,4-dioxane was detected in six of the seven groundwater samples analyzed, however only one sample (MW-1S) contained 1,4-dioxane at a concentration exceeding the applicable Guidance value.

Sediment samples collected along Whites Creek were analyzed for a full suite of analytes to evaluate potential off-site migration of contamination from the Former Commander Oil Terminal into Whites Creek and Oyster Bay Harbor. While significant impacts were observed in the sediment collected as part of the SC and multiple VOCs and SVOCs were detected, only three VOCs and total PAHs at three locations were detected at concentrations greater than the corresponding Saltwater Sediment Guidance Value for a Class A Sediment. The sediments also had a few minor metals exceedances of corresponding Saltwater Sediment Guidance Value for a Class A Sediment, as well as one exceedance of Class B Sediment Guidance Value. Additionally there was one total PCB exceedance of the Class A sediment Guidance Value. These impacts however, are not strongly attributable to activities at the Former Commander Oil Terminal based on historical sampling. Minor concentrations of pesticides, herbicides, and PFAS were detected at both SDMT-1 and SDMT-2 locations but no concentration

exceeded the Saltwater Sediment Guidance Value for a Class A Sediment, where applicable. 1,4-dioxane was not detected in any of the sediment samples collected as part of the SC.

Surface water collected at locations paired with the sediment sample locations were analyzed for a sub-set of analytes, as instructed by NYSDEC. A few VOCs and SVOCs were detected in the surface water samples but none at concentrations exceeding the corresponding NYSDEC TOGS 1.1.1 General Ambient Standards nor the Water Class SC saline surface water (fish, shellfish, and wildlife survival and propagation). Metals detected exceeding NYSDEC TOGS 1.1.1 General Ambient Standards are generally consistent with tidal marsh environments and not necessarily related to the migration of contamination from the oil terminal, however copper, lead and nickel were detected at concentrations exceeding the corresponding NYSDEC TOGS 1.1.1 Water Class SC saline surface water Standards (fish, shellfish, and wildlife survival and propagation). PFAS was detected in all three surface water samples and exceeded NYSDEC TOGS 1.1.1 General Ambient Guidance Values at SW-1 and SW-2. No concentrations of PFOS exceeded the NYSDEC TOGS 1.1.1 Water Class SC Guidance Value for saline surface water (fish, shellfish, and wildlife survival and propagation). The detected PFAS compounds were observed to be similar to those detected in the groundwater samples and at similar concentrations. This may suggest that the detected PFAS concentrations are widespread and/or from a common source. 1,4 dioxane was detected in two of the three surface water samples, but not at concentrations greater than the NYSDEC TOGS 1.1.1 General Ambient nor Water Class SC saline surface water (fish, shellfish, and wildlife survival and propagation) Guidance Value.

The soil vapor samples collected during the SC indicate the potential for vapor intrusion in any building constructed in the evaluated area. The two compounds noted to be likely to require mitigation in any building, trichloroethene and cis-1,2-dichloroethene are both compounds also detected on the Former Commander Oil Terminal Site and are compounds associated with Site activities and spill records. Trichloroethene and cis-1,2-dichlorothene were also detected in soil and groundwater samples collected as part of the SC.

7 References

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Tables

Table 3-1
Summary of Soil Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-1 0-0.5 10/29/2024	DPT-1 5-10 10/23/2024	DPT-2 0-0.5 10/19/2024	DPT-2 5-10 10/23/2024
Detected VOCs (mg/kg)								
1,2,4-Trimethylbenzene	3.6	3.6	190	380	0.00096 U	0.12 U	0.0015 U	**0.64**
1,2-Dichlorobenzene	1.1	1.1	500	1000	0.00096 U	0.12 U	0.0015 U	0.22 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	8.4	190	380	0.00096 U	0.12 U	0.0015 U	**0.13 J**
Acetone	0.05	0.05	500	1000	0.048 U	**0.36 J**	0.074 U	11 U
Benzene	0.06	0.06	44	89	0.00096 U	**0.10 J**	0.0015 U	**0.38**
Carbon Disulfide	--	--	--	--	0.0096 U	0.59 U	0.015 U	1.1 U
cis-1,2-Dichlorethene	0.25	0.25	500	1000	0.00096 U	0.12 U	0.0015 U	**1.4**
Ethylbenzene	1	1	390	780	0.00096 U	0.12 U	0.0015 U	**0.25**
Isopropylbenzene (Cumene)	--	--	--	--	0.00096 U	**0.078 J**	0.0015 U	**0.11 J**
m,p-Xylene	0.26	1.6	500	1000	0.0019 U	**0.047 J**	0.003 U	**0.34 J**
Methyl Acetate	--	--	--	--	0.00096 U	**0.43 J**	0.0015 U	**0.39 J**
Methyl Ethyl Ketone (2-Butanone)	0.12	0.12	500	1000	0.019 U	2.4 U	0.03 U	**0.56 J**
Methylcyclohexane	--	--	--	--	0.00096 U	**0.040 J**	0.0015 U	**0.11 J**
Naphthalene	--	--	--	--	0.0019 U	0.24 U	0.003 U	**0.31 J**
N-Butylbenzene	12	12	500	1000	0.00096 U	**0.031 J**	0.0015 U	**0.091 J**
N-Propylbenzene	3.9	3.9	500	1000	0.00096 U	**0.060 J**	0.0015 U	**0.16 J**
o-Xylene (1,2-Dimethylbenzene)	0.26	1.6	500	1000	0.00096 U	**0.034 J**	0.0015 U	**0.22**
p-Cymene (p-Isopropyltoluene)	--	--	--	--	0.00096 U	0.12 U	0.0015 U	**0.095 J**
sec-Butylbenzene	11	11	500	1000	0.00096 U	**0.091 J**	0.0015 U	**0.12 J**
tert-Butyl Methyl Ether	0.93	0.93	500	1000	0.0019 U	0.12 U	0.003 U	**0.15 J**
tert-Butylbenzene	5.9	5.9	500	1000	0.00096 U	**0.027 J**	0.0015 U	0.22 U
Toluene	0.7	0.7	500	1000	0.00096 U	**0.029 J**	0.0015 U	**0.68**
Trichloroethene (TCE)	0.47	0.47	200	400	0.00096 U	0.12 U	0.0015 U	**0.13 J**
Vinyl Chloride	0.02	0.02	13	27	0.0048 U	0.24 U	0.0074 U	0.43 U
Xylenes	0.26	1.6	500	1000	0.00096 U	0.12 U	0.0015 U	**0.56**

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Summary of Soil Sample Results - VOCs
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Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-3 10-15 10/22/2024	DPT-4 10-15 10/25/2024	MW-1 0-0.5 10/29/2024
Detected VOCs (mg/kg)							
1,2,4-Trimethylbenzene	3.6	3.6	190	380	0.0018 U	0.0018 U	0.002 (0.002) U (U)
1,2-Dichlorobenzene	1.1	1.1	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
1,3,5-Trimethylbenzene (Mesitylene)	8.4	8.4	190	380	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Acetone	0.05	0.05	500	1000	0.09 U	0.089 U	0.1 (0.098) U (U)
Benzene	0.06	0.06	44	89	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Carbon Disulfide	--	--	--	--	0.018 X	0.018 U	0.02 (0.02) X (U)
cis-1,2-Dichlorethene	0.25	0.25	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Ethylbenzene	1	1	390	780	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Isopropylbenzene (Cumene)	--	--	--	--	0.0018 U	0.0018 U	0.002 (0.002) U (U)
m,p-Xylene	0.26	1.6	500	1000	0.0036 U	0.0035 U	0.004 (0.0039) U (U)
Methyl Acetate	--	--	--	--	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Methyl Ethyl Ketone (2-Butanone)	0.12	0.12	500	1000	0.036 U	0.035 U	0.04 (0.039) U (U)
Methylcyclohexane	--	--	--	--	0.0018 U	0.0018 U	0.002 (0.002) UJ (U)
Naphthalene	--	--	--	--	0.0036 U	0.0035 U	0.004 (0.0039) UJ (U)
N-Butylbenzene	12	12	500	1000	0.0018 U	0.0018 U	0.002 (0.002) UJ (U)
N-Propylbenzene	3.9	3.9	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
o-Xylene (1,2-Dimethylbenzene)	0.26	1.6	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
p-Cymene (p-Isopropyltoluene)	--	--	--	--	0.0018 U	0.0018 U	0.002 (0.002) U (U)
sec-Butylbenzene	11	11	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
tert-Butyl Methyl Ether	0.93	0.93	500	1000	0.0036 U	0.0035 U	0.004 (0.0039) U (U)
tert-Butylbenzene	5.9	5.9	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Toluene	0.7	0.7	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Trichloroethene (TCE)	0.47	0.47	200	400	0.0018 U	0.0018 U	0.002 (0.002) U (U)
Vinyl Chloride	0.02	0.02	13	27	0.009 U	0.0089 U	0.01 (0.0098) UJ (U)
Xylenes	0.26	1.6	500	1000	0.0018 U	0.0018 U	0.002 (0.002) U (U)

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Summary of Soil Sample Results - VOCs
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Detected VOCs (mg/kg)								
1,2,4-Trimethylbenzene	3.6	3.6	190	380	0.0017 U	0.0016 U	0.0021 U	0.0021 U
1,2-Dichlorobenzene	1.1	1.1	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	8.4	190	380	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Acetone	0.05	0.05	500	1000	0.085 U	0.082 U	0.1 U	0.11 U
Benzene	0.06	0.06	44	89	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Carbon Disulfide	--	--	--	--	0.017 U	0.016 U	0.021 X	0.021 X
cis-1,2-Dichlorethene	0.25	0.25	500	1000	**0.0022**	0.0016 U	0.0021 U	**0.0055**
Ethylbenzene	1	1	390	780	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Isopropylbenzene (Cumene)	--	--	--	--	0.0017 U	0.0016 U	0.0021 U	0.0021 U
m,p-Xylene	0.26	1.6	500	1000	0.0034 U	0.0033 U	0.0041 U	0.0043 U
Methyl Acetate	--	--	--	--	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Methyl Ethyl Ketone (2-Butanone)	0.12	0.12	500	1000	0.034 U	0.033 U	0.041 U	0.043 U
Methylcyclohexane	--	--	--	--	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Naphthalene	--	--	--	--	0.0034 U	0.0033 U	0.0041 U	0.0043 U
N-Butylbenzene	12	12	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
N-Propylbenzene	3.9	3.9	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
o-Xylene (1,2-Dimethylbenzene)	0.26	1.6	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
p-Cymene (p-Isopropyltoluene)	--	--	--	--	**0.012**	0.0016 U	0.0021 U	0.0021 U
sec-Butylbenzene	11	11	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
tert-Butyl Methyl Ether	0.93	0.93	500	1000	0.0034 U	0.0033 U	0.0041 U	0.0043 U
tert-Butylbenzene	5.9	5.9	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Toluene	0.7	0.7	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Trichloroethene (TCE)	0.47	0.47	200	400	0.0017 U	0.0016 U	0.0021 U	0.0021 U
Vinyl Chloride	0.02	0.02	13	27	**0.0014 J**	0.0082 U	0.01 U	0.011 U
Xylenes	0.26	1.6	500	1000	0.0017 U	0.0016 U	0.0021 U	0.0021 U

Table 3-1
Summary of Soil Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	MW-2 28.5-29 10/22/2024	MW-3 23-23.5 10/24/2024	MW-4 11.5-12 10/25/2024	MW-4 26-29 10/25/2024
Detected VOCs (mg/kg)								
1,2,4-Trimethylbenzene	3.6	3.6	190	380	0.002 U	0.0018 U	0.0017 U	0.0021 U
1,2-Dichlorobenzene	1.1	1.1	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	8.4	190	380	0.002 U	0.0018 U	0.0017 U	0.0021 U
Acetone	0.05	0.05	500	1000	0.099 U	0.088 U	0.084 U	0.1 U
Benzene	0.06	0.06	44	89	0.002 U	0.0018 U	0.0017 U	0.0021 U
Carbon Disulfide	--	--	--	--	0.02 X	0.018 U	0.017 U	0.021 U
cis-1,2-Dichlorethene	0.25	0.25	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
Ethylbenzene	1	1	390	780	0.002 U	0.0018 U	0.0017 U	0.0021 U
Isopropylbenzene (Cumene)	--	--	--	--	0.002 U	0.0018 U	0.0017 U	0.0021 U
m,p-Xylene	0.26	1.6	500	1000	0.004 U	0.0035 U	0.0034 U	0.0041 U
Methyl Acetate	--	--	--	--	0.002 U	0.0018 U	0.0017 U	0.0021 U
Methyl Ethyl Ketone (2-Butanone)	0.12	0.12	500	1000	0.04 U	0.035 U	0.034 U	0.041 U
Methylcyclohexane	--	--	--	--	0.002 U	0.0018 U	0.0017 U	0.0021 U
Naphthalene	--	--	--	--	0.004 U	0.0035 U	0.0034 U	0.0041 U
N-Butylbenzene	12	12	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
N-Propylbenzene	3.9	3.9	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
o-Xylene (1,2-Dimethylbenzene)	0.26	1.6	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
p-Cymene (p-Isopropyltoluene)	--	--	--	--	0.002 U	0.0018 U	0.0017 U	0.0021 U
sec-Butylbenzene	11	11	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
tert-Butyl Methyl Ether	0.93	0.93	500	1000	0.004 U	0.0035 U	0.0034 U	0.0041 U
tert-Butylbenzene	5.9	5.9	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
Toluene	0.7	0.7	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U
Trichloroethene (TCE)	0.47	0.47	200	400	0.002 U	0.0018 U	0.0017 U	0.0021 U
Vinyl Chloride	0.02	0.02	13	27	0.0099 U	0.0088 U	0.0084 U	0.01 U
Xylenes	0.26	1.6	500	1000	0.002 U	0.0018 U	0.0017 U	0.0021 U

Table 3-1
Summary of Soil Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Unrestricted Use SCO are highlighted in yellow.
Concentrations detected above the Protection of Groundwater SCO are highlighted in orange.
Concentrations detected above the Commercial Use SCO are highlighted in blue.
Concentrations detected above the Industrial Use SCO are highlighted in red.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation

SCO = Soil Cleanup Objective

VOC = volatile organic compound

mg/kg = milligrams per kilogram

--- = No regulatory criteria exists for respective analyte.

B = Analyte was found in the sample and the blank.

J = The concentration is an approximate value.

U = The compound was analyzed for but not detected. The associated value is the reporting limit.

UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.

X = The sample results were affected by serious defficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The oresence or absence of the analyte cannot be substantiated by the data provided.

Table 3-2
Summary of Soil Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-1 0-0.5 10/29/2024	DPT-1 5-10 10/23/2024	DPT-2 0-0.5 10/19/2024	DPT-2 5-10 10/23/2024	DPT-3 10-15 10/22/2024
Detected SVOCs (mg/kg)									
1-Methylnaphthalene	--	--	--	--	0.35 U	0.29 U	0.37 U	**0.75**	0.19 U
2-Methylnaphthalene	--	--	--	--	0.35 U	0.29 U	0.37 U	**0.17 J**	0.19 U
2-Methylphenol (O-Cresol)	--	--	--	--	0.69 U	0.58 U	0.73 U	1.1 U	0.39 U
Anthracene	100	1000	500	1000	0.35 U	0.29 U	**0.076 J**	0.53 U	0.19 U
Benzo(a)anthracene	1	1	5.6	11	**0.32 J**	0.29 U	**0.51**	0.53 U	0.19 U
Benzo(a)pyrene	1	22	1	1.1	**0.38**	0.29 U	**0.64**	0.53 U	0.19 U
Benzo(b)fluoranthene	1	1.7	5.6	11	**0.57**	0.29 U	**0.98**	0.53 U	0.19 U
Benzo(g,h,i)perylene	100	1000	500	1000	**0.35**	0.29 U	**0.55**	0.53 U	0.19 U
Benzo(k)fluoranthene	0.8	1.7	56	110	**0.20 J**	0.29 U	**0.37**	0.53 U	0.19 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	--	**0.25 J**	0.58 U	**0.12 J**	1.1 U	0.39 U
Carbazole	--	--	--	--	0.35 U	0.29 U	0.37 U	0.53 U	0.19 U
Chrysene	1	1	56	110	**0.37**	0.29 U	**0.67**	0.53 U	0.19 U
Dibenz(a,h)anthracene	0.33	1,000	1	1	0.35 U	0.29 U	**0.11 J**	0.53 U	0.19 U
Fluoranthene	100	1,000	500	1,000	**0.70**	0.29 U	**1.3**	0.53 U	0.19 U
Indeno(1,2,3-c,d)pyrene	0.5	8.2	5.6	11	**0.34 J**	0.29 U	**0.52**	0.53 U	0.19 U
Phenanthrene	100	1000	500	1000	**0.27 J**	0.29 U	**0.56**	**0.10 J**	0.19 U
Pyrene	100	1000	500	1000	**0.61**	0.29 U	**0.99**	0.53 U	0.19 U
SVOCs SIM (mg/kg)									
1,4-Dioxane	0.1	0.1	36	36	0.051 U	--	0.055 U	0.16 U	--

Table 3-2
Summary of Soil Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-4 10-15 10/25/2024	MW-1 0-0.5 10/29/2024	MW-1 5-6 10/21/2024	MW-1 20-22.5 10/21/2024	MW-2 0-0.5 10/22/2024	MW-4 26-29 10/25/2024	
Detected SVOCs (mg/kg)											
1-Methylnaphthalene	--	--	--	--	0.2 U	0.36 (0.36) U (U)	0.2 U	0.19 U	0.17 U	--	
2-Methylnaphthalene	--	--	--	--	0.2 U	0.36 (0.36) U (U)	0.2 U	0.19 U	0.17 U	--	
2-Methylphenol (O-Cresol)	--	--	--	--	0.41 U	0.71 **(0.14)** U **(J)**	0.39 U	0.37 U	0.35 U	--	
Anthracene	100	1000	500	1000	0.2 U	0.36 (0.36) U (U)	0.2 U	0.19 U	0.17 U	--	
Benzo(a)anthracene	1	1	5.6	11	0.2 U	**0.11 (0.10) J (J)**	0.2 U	0.19 U	0.17 U	--	
Benzo(a)pyrene	1	22	1	1.1	0.2 U	**0.14 (0.14) J (J)**	0.2 U	0.19 U	**0.041 J**	--	
Benzo(b)fluoranthene	1	1.7	5.6	11	0.2 U	**0.23 (0.21) J (J)**	0.2 U	0.19 U	**0.070 J**	--	
Benzo(g,h,i)perylene	100	1000	500	1000	0.2 U	**0.15 (0.11) J (J)**	0.2 U	0.19 U	0.17 U	--	
Benzo(k)fluoranthene	0.8	1.7	56	110	0.2 U	**0.098 (0.080) J (J)**	0.2 U	0.19 U	0.17 U	--	
Bis(2-Ethylhexyl) Phthalate	--	--	--	--	0.41 U	**0.10 (0.14) J (J)**	0.39 U	0.37 U	0.35 U	--	
Carbazole	--	--	--	--	0.2 U	0.36 (0.36) U (U)	0.2 U	0.19 U	0.17 U	--	
Chrysene	1	1	56	110	0.2 U	**0.16 (0.14) J (J)**	0.2 U	0.19 U	0.17 U	--	
Dibenz(a,h)anthracene	0.33	1,000	1	1	0.2 U	0.36 (0.36) U (U)	0.2 U	0.19 U	0.17 U	--	
Fluoranthene	100	1,000	500	1,000	0.2 U	**0.25 (0.22) J (J)**	0.2 U	0.19 U	**0.050 J**	--	
Indeno(1,2,3-c,d)pyrene	0.5	8.2	5.6	11	0.2 UJ	**0.13** (0.36) **J** (U)	0.2 U	0.19 U	0.17 U	--	
Phenanthrene	100	1000	500	1000	0.2 U	**0.10 (0.090) J (J)**	0.2 U	0.19 U	0.17 U	--	
Pyrene	100	1000	500	1000	0.2 U	**0.22 (0.19) J (J)**	0.2 U	0.19 U	**0.050 J**	--	
SVOCs SIM (mg/kg)											
1,4-Dioxane	0.1	0.1	36	36	--	0.053 (0.054) U (U)	0.058 U	--	0.051 U	0.058	UJ

Table 3-2
Summary of Soil Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Unrestricted use are highlighted in yellow.
Concentrations detected above the Protection of Groundwater SCO are highlighted in orange.
Concentrations detected above the Commercial Use SCO are highlighted in blue.
Concentrations detected above the Industrial Use SCO are highlighted in red.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
SCO = Soil Cleanup Objective
mg/kg = milligrams per kilogram
* = No available SCO. Guidance value shown.
--- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.
UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.
X = The sample results were affected by serious defficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The oresence or absence of the analyte cannot be substantiated by the data provided.

Table 3-3
Summary of Soil Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-1 0-0.2 - Metals 0-0.5 - Cyanide 10/29/2024	DPT-1 5-10 10/23/2024	DPT-2 0-0.2 - Metals 0-0.5 - Cyanide 10/19/2024	DPT-2 5-10 10/23/2024
GenChem								
Cyanide (mg/kg)	27	40	27	10000	0.49 U	0.78 X	0.55 U	1.5 X
Percent Solids (%)	--	--	--	--	**96.2**	**58.1**	**90.2**	**31.8**
Metals (mg/kg)								
Aluminum	--	--	--	--	**5100**	**7100**	**7100**	**2400**
Antimony	--	--	--	--	1.7 U	2.9 U	1.8 U	5.2 U
Arsenic	13	16	16	16	**5.6**	**6.8**	**9.5**	**5.0 J**
Barium	350	820	400	10,000	**48**	**19**	**49**	**27**
Beryllium	7	47	590	2,700	**0.28**	**0.20 J**	**0.60**	**0.24 J**
Cadmium	2.5	7.5	9.3	60	**0.27 J**	0.57 U	**0.52**	1 U
Calcium	--	--	--	--	**65000**	**7200**	**30000**	**13000**
Chromium	30	--	1500	6800	**14**	**14**	**21**	**6.9**
Cobalt	--	--	--	--	**3.0**	**1.5 J**	**5.5**	**1.5 J**
Copper	50	1,720	270	10,000	**30**	**12 J+**	**69**	**7.9 J+**
Iron	--	--	--	--	**11000**	**9400**	**12000**	**3000**
Lead	63	450	1000	3,900	**21**	**9.8**	**120**	**26**
Magnesium	--	--	--	--	**25000**	**1200**	**8400**	**1600**
Manganese	1,600	2,000	10,000	10,000	**190**	**100 J+**	**220**	**79 J+**
Nickel	30	130	310	10,000	**8.9**	**5.2**	**19**	**6.2**
Potassium	--	--	--	--	**1200**	**430**	**740**	**860**
Selenium	4	4	1500	6,800	3.4 U	5.7 U	3.6 U	10 U
Silver	2	8.3	1500	6,800	0.34 U	0.57 U	0.36 U	1 U
Sodium	--	--	--	--	**200**	**530**	**180 J**	**600**
Thallium	--	--	--	--	1.7 U	2.9 U	1.8 U	5.2 U
Vanadium	--	--	--	--	**18**	**14**	**19**	**15**
Zinc	109	2,480	10,000	10,000	**92**	**15**	**310**	**29**
Mercury	0.18	0.73	2.8	5.7	**0.051**	**0.031 J**	**0.063**	**0.13**

Table 3-3
Summary of Soil Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	MW-1 0-0.2 - Metals 0-0.5 - Cyanide 10/29/2024	MW-1 5-6 10/21/2024	MW-1 20-22.5 10/21/2024	MW-2 0-0.2 - Metals 0-0.5 - Cyanide 10/22/2024	MW-4 5-6.5 10/25/2024
GenChem									
Cyanide (mg/kg)	27	40	27	10000	0.52 (0.53) U(U)	0.55 X	0.53 X	0.51 X	0.52 U
Percent Solids (%)	--	--	--	--	**93.5 (92.1)**	**85.0**	**88.7**	**97.7**	**86.5**
Metals (mg/kg)									
Aluminum	--	--	--	--	**6500 (7100)**	**--**	**1300**	**4500**	**5100**
Antimony	--	--	--	--	1.7 (1.8) U (U)	**--**	1.9 U	1.6 U	1.8 U
Arsenic	13	16	16	16	**7.3 (8.7)**	**--**	**0.97 J**	**4.3**	**5.8**
Barium	350	820	400	10,000	**50 (47)**	**--**	**5.5**	**15**	**26**
Beryllium	7	47	590	2,700	**0.35 (0.37)**	**--**	**0.12 J**	**0.24**	**0.24**
Cadmium	2.5	7.5	9.3	60	**0.63 (0.61)**	**--**	0.37 U	0.31 U	**0.22 J**
Calcium	--	--	--	--	**23000 (27000)**	**--**	**260**	**95000**	**13000**
Chromium	30	--	1500	6800	**14 (13)**	**--**	**5.1**	**5.2**	**15**
Cobalt	--	--	--	--	**3.3 (3.6)**	**--**	**1.2 J**	**5.8**	**4.0**
Copper	50	1,720	270	10,000	**25 (28)**	**--**	**3.1**	**94**	**57**
Iron	--	--	--	--	**9500 (9600)**	**--**	**4100**	**12000**	**12000**
Lead	63	450	1000	3,900	**22 (26)**	**--**	**1.9**	**21**	**67**
Magnesium	--	--	--	--	**9700 (11000)**	**--**	**460**	**37000**	**4500**
Manganese	1,600	2,000	10,000	10,000	**180 (190)**	**--**	**34**	**160**	**190**
Nickel	30	130	310	10,000	**7.7 (8.2)**	**--**	**2.2**	**11**	**7.8**
Potassium	--	--	--	--	**600 (630)**	**--**	**230**	**620**	**780**
Selenium	4	4	1500	6,800	3.4 (3.6) U (U)	**--**	3.7 U	3.1 U	3.6 U
Silver	2	8.3	1500	6,800	0.34 (0.36) U (U)	**--**	0.37 U	**0.73**	0.36 U
Sodium	--	--	--	--	**92 (95) J (J)**	**--**	190 U	**720**	**470**
Thallium	--	--	--	--	1.7 (1.8) U (U)	**--**	1.9 U	1.6 U	1.8 U
Vanadium	--	--	--	--	**14 (17)**	**--**	**6.3**	**17**	**21**
Zinc	109	2,480	10,000	10,000	**76 (86)**	**--**	**5.4**	**63**	**72**
Mercury	0.18	0.73	2.8	5.7	**0.038 (0.043)**	**--**	0.028 U	**0.012 J**	**0.10**

Table 3-3
Summary of Soil Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.

Concentrations detected above the Unrestricted Use SCO are highlighted in yellow.

Concentrations detected above the Protection of Groundwater SCO are highlighted in orange.

Concentrations detected above the Commercial Use SCO are highlighted in blue.

Concentrations detected above the Industrial Use SCO are highlighted in red.

Duplicate sample results are in parentheses.

Definitions:

GenChem = General Chemistry

NYSDEC = New York State Department of Environmental Conservation

SCO = Soil Cleanup Objective

mg/kg = milligrams per kilogram

--- = No regulatory criteria exists for respective analyte.

J = The concentration is an approximate value.

J+ = The concentration is an approximate value, biased high.

U = The compound was analyzed for but not detected. The associated value is the reporting limit.

X = The sample results were affected by serious defficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.

Table 3-4
Summary of Soil Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-1 0-0.5 10/29/2024		DPT-1 5-10 10/23/2024		DPT-2 0-0.5 10/19/2024		DPT-2 5-10 10/23/2024	
Pesticides (mg/kg)												
Aldrin	0.005	0.19	0.68	1	0.1	U	0.0083	U	0.055	U	0.015	U
alpha-Endosulfan	2.4	102	200	920	0.1	U	0.0083	U	0.055	U	0.015	U
alpha-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.02	0.02	3.4	6.8	0.1	U	0.0083	UJ	0.055	U	0.015	UJ
beta-Endosulfan	2.4	102	200	920	0.16	U	0.013	U	0.089	U	0.025	U
beta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.036	0.09	3	14	0.1	U	0.0083	U	0.055	U	0.015	U
cis-Chlordane	0.094	2.9	24	47	**0.048**	**J**	0.0083	U	**0.054**	**J**	0.015	U
delta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.04	0.25	500	100	0.1	U	0.0083	UJ	0.055	U	0.015	UJ
Dieldrin	0.005	0.1	1.4	2.8	**0.084**		0.0066	U	**0.011**	**J**	0.012	U
Endosulfan Sulfate	2.4	1000	200	920	0.16	U	0.013	U	0.089	U	0.025	U
Endrin	0.014	0.06	89	410	0.16	U	0.013	U	0.089	U	0.025	U
Endrin Aldehyde	--	--	--	--	0.16	U	0.013	U	0.089	U	0.025	U
Endrin Ketone	--	--	--	--	0.16	U	0.013	U	0.089	U	0.025	U
gamma-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.1	0.1	9.2	23	0.041	U	0.0033	UJ	0.022	U	0.0062	UJ
Heptachlor	0.042	0.38	15	29	0.1	U	0.0083	U	**0.010**	**J**	0.015	U
Heptachlor Epoxide	--	--	--	--	0.1	U	0.0083	U	**0.011**	**J**	0.015	U
Methoxychlor	--	--	--	--	1	U	0.083	U	0.55	U	0.15	U
4,4'-DDD	0.0033	14	92	180	0.081	U	0.0066	UJ	0.044	U	0.012	UJ
4,4'-DDE	0.0033	17	62	120	0.081	U	**0.0013**	**J**	0.044	U	**0.0024**	**J**
4,4'-DDT	0.0033	136	47	94	**0.029**	**J**	0.0066	U	**0.011**	**J**	0.012	U
Toxaphene	--	--	--	--	2	U	0.17	U	1.1	U	0.31	U
trans-Chlordane	0.094	2.9	24	47	**0.047**	**J**	0.0083	U	**0.057**		0.015	U
Herbicides (mg/kg)												
MCPP	--	--	--	--	3.44	U	7.71	U	3.52	U	6.43	U
MCPA	--	--	--	--	3.44	U	7.71	U	3.52	U	6.43	U
Dalapon	--	--	--	--	0.0344	U	0.0771	U	0.0352	U	0.0643	U
Dicamba	--	--	--	--	0.0344	U	0.0771	U	0.0352	U	0.0643	U
Dichloroprop	--	--	--	--	0.0344	U	0.0771	U	0.0352	U	0.0643	U
2,4-D	--	--	--	--	0.172	U	0.386	U	0.176	U	0.321	U
2,4-DB	--	--	--	--	0.172	U	0.386	U	0.176	U	0.321	U
2,4,5-T	--	--	--	--	0.172	U	0.386	U	0.176	U	0.321	U
2,4,5-TP (Silvex)	3.8	3.8	500	1000	0.172	U	0.386	U	0.176	U	0.321	U

Table 3-4
Summary of Soil Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	MW-1 0-0.5 10/29/2024		MW-1 20-22.5 10/21/2024		MW-2 0-0.5 10/22/2024		MW-4 5-6.5 10/25/2024	
Pesticides (mg/kg)												
Aldrin	0.005	0.19	0.68	1	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
alpha-Endosulfan	2.4	102	200	920	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
alpha-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.02	0.02	3.4	6.8	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
beta-Endosulfan	2.4	102	200	920	0.083 (0.083)	U (U)	0.0083	U	0.04	U	0.17	U
beta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.036	0.09	3	14	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
cis-Chlordane	0.094	2.9	24	47	**0.027 (0.028)**	**J (J)**	0.0052	U	0.025	U	0.11	U
delta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.04	0.25	500	100	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
Dieldrin	0.005	0.1	1.4	2.8	**0.018 (0.018)**	**J (J)**	0.0042	U	0.02	U	0.086	U
Endosulfan Sulfate	2.4	1000	200	920	0.083 (0.083)	U (U)	0.0083	U	0.04	U	0.17	U
Endrin	0.014	0.06	89	410	0.083 (0.083)	U (U)	0.0083	U	0.04	U	0.17	U
Endrin Aldehyde	--	--	--	--	0.083 (0.083)	U (U)	0.0083	U	0.04	U	0.17	U
Endrin Ketone	--	--	--	--	0.083 (0.083)	U (U)	0.0083	U	0.04	U	0.17	U
gamma-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.1	0.1	9.2	23	0.021 (0.021)	U (U)	0.0021	U	0.01	U	0.043	U
Heptachlor	0.042	0.38	15	29	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
Heptachlor Epoxide	--	--	--	--	0.052 (0.052)	U (U)	0.0052	U	0.025	U	0.11	U
Methoxychlor	--	--	--	--	0.52 (0.52)	U (U)	0.052	U	0.25	U	1.1	U
4,4'-DDD	0.0033	14	92	180	0.042 (0.042)	U (U)	0.0042	U	0.02	U	0.086	U
4,4'-DDE	0.0033	17	62	120	**0.024 (0.025)**	**J (J)**	0.0042	U	0.02	U	0.086	U
4,4'-DDT	0.0033	136	47	94	**0.051 (0.060)**		0.0042	U	0.02	U	0.086	U
Toxaphene	--	--	--	--	1 (1)	U (U)	0.1	U	0.5	U	2.2	U
trans-Chlordane	0.094	2.9	24	47	**0.025 (0.024)**	**J (J)**	0.0052	U	0.025	U	0.11	U
Herbicides (mg/kg)												
MCPP	--	--	--	--	3.62 (4.5)	U (U)	3.71	U	3.39	U	3.7	U
MCPA	--	--	--	--	3.62 (4.5)	U (U)	3.71	U	3.39	U	3.7	U
Dalapon	--	--	--	--	0.0362 (0.045)	U (U)	0.0371	U	0.0339	U	0.037	U
Dicamba	--	--	--	--	0.0362 (0.045)	U (U)	0.0371	U	0.0339	U	0.037	U
Dichloroprop	--	--	--	--	0.0362 (0.045)	U (U)	0.0371	U	0.0339	U	0.037	U
2,4-D	--	--	--	--	0.181 (0.225)	U (U)	0.185	U	0.17	U	0.185	U
2,4-DB	--	--	--	--	0.181 (0.225)	U (U)	0.185	U	0.17	U	0.185	U
2,4,5-T	--	--	--	--	0.181 (0.225)	U (U)	0.185	U	0.17	U	0.185	U
2,4,5-TP (Silvex)	3.8	3.8	500	1000	0.181 (0.225)	U (U)	0.185	U	0.17	U	0.185	U

Table 3-4
Summary of Soil Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Unrestricted Use SCO are highlighted in yellow.
Concentrations detected above the Protection of Groundwater SCO are highlighted in orange.
Concentrations detected above the Commercial Use SCO are highlighted in blue.
Concentrations detected above the Industrial Use SCO are highlighted in red.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
SCO = Soil Cleanup Objective
mg/kg = milligrams per kilogram
--- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.
UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.

Table 3-5
Summary of Soil Sample Results - PCBs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-1 0-0.5 10/29/2024	DPT-1 5-10 10/23/2024	DPT-2 0-0.5 10/19/2024	DPT-2 5-10 10/23/2024	MW-1 0-0.5 10/29/2024	MW-1 5-6 10/21/2024	MW-2 0-0.5 10/22/2024	MW-4 5-6.5 10/25/2024
PCBs (mg/kg)												
Aroclor 1016	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1221	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1232	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1242	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1248	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1254	--	--	--	--	**0.058 J**	0.14 U	0.088 U	0.25 U	**0.028 (0.030) J (J)**	0.093 U	0.082 U	0.088 U
Aroclor 1260	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1262	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Aroclor 1268	--	--	--	--	0.083 U	0.14 U	0.088 U	0.25 U	0.085 (0.087) U (U)	0.093 U	0.082 U	0.088 U
Total PCBs	0.1	3.2	1	25	**0.058 J**	0.14 U	0.088 U	0.25 U	**0.028 (0.030) J(J)**	0.093 U	0.082 U	0.088 U

Table 3-5
Summary of Soil Sample Results - PCBs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Unrestricted Use SCO are highlighted in yellow.
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Concentrations detected above the Commercial Use SCO are highlighted in blue.
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Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
SCO = Soil Cleanup Objective
mg/kg = milligrams per kilogram
--- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Table 3-6
Summary of Soil Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	DPT-1 0-0.5 10/29/2024		DPT-2 0-0.5 10/19/2024		DPT-2 5-10 10/23/2024	
PFAS (µg/kg)										
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	--	--	--	--	0.8	U	0.79	U	1.2	U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	--	--	--	--	0.8	U	0.79	U	1.2	U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	--	--	--	--	0.8	U	0.79	U	1.2	U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	--	--	--	--	0.8	U	0.79	U	1.2	U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	--	--	5	U	5	U	15	U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	--	--	5	U	5	U	15	U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	--	--	--	1	U	0.99	U	3.1	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	--	0.8	U	0.79	U	1.2	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	--	--	--	--	0.8	U	0.79	U	1.2	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	--	--	--	0.8	U	0.79	U	1.2	U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	--	--	--	--	0.2	U	0.2	U	0.31	U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	--	--	--	0.2	U	0.2	U	0.31	U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	--	--	--	2	U	2	U	3.1	U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	--	--	--	--	0.2	U	0.2	U	0.31	U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	--	--	0.2	U	0.2	U	0.31	U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	--	--	--	2	U	2	U	3.1	U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	--	0.4	U	0.4	U	0.62	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	--	--	0.4	U	0.4	U	0.62	U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	--	0.4	U	0.4	U	0.62	U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	--	0.4	U	0.4	U	0.62	U
Perfluorobutanesulfonic acid (PFBS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorobutanoic Acid	--	--	--	--	0.8	U	0.79	U	1.2	U
Perfluorodecanesulfonic acid (PFDS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorodecanoic acid (PFDA)	--	--	--	--	0.2	U	0.18	J	0.31	U
Perfluorododecanesulfonic acid (PFDoS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorododecanoic acid (PFDoA)	--	--	--	--	0.2	U	**0.55**		0.31	U
Perfluoroheptanesulfonic acid (PFHpS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluoroheptanoic acid (PFHpA)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorohexanoic acid (PFHxA)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorononanesulfonic Acid (PFNS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorononanoic acid (PFNA)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorooctane Sulfonamide (PFOSA)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluorooctanesulfonic acid (PFOS)	0.88*	1*	440*	440*	**0.073**	**J**	**0.071**	**J**	0.31	U
Perfluorooctanoic acid (PFOA)	0.66*	0.8*	500*	600*	0.2	U	0.2	U	0.31	U
Perfluoropentanesulfonic Acid (PFPeS)	--	--	--	--	0.2	U	0.2	U	0.31	U
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	0.4	U	0.4	U	0.62	U
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	--	0.2	U	**0.36**		0.31	U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	--	--	--	--	0.2	U	**0.47**		0.31	U
Perfluoroundecanoic Acid (PFUnA)	--	--	--	--	0.2	U	**0.37**		0.31	U

Table 3-6
Summary of Soil Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	6 NYCRR PART 375 UNRESTRICTED USE SCO	6 NYCRR PART 375 POGW SCO	6 NYCRR PART 375 COMMERCIAL USE SCO	6 NYCRR PART 375 INDUSTRIAL USE SCO	MW-1 0-0.5 10/29/2024		MW-2 0-0.5 10/22/2024		MW-4 5-6.5 10/25/2024		MW-4 26-29 10/25/2024	
PFAS (µg/kg)												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	--	--	5 (5)	U (U)	9.7	UJ	4.9	U	5	U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	--	--	5 (5)	U (U)	9.7	UJ	4.9	U	5	U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	--	--	--	0.99 (0.99)	U (U)	1.9	U	0.98	U	1	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	--	--	--	2 (2)	U (U)	1.9	U	2	U	2	U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	--	--	--	2 (2)	U (U)	1.9	U	2	U	2	U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	--	0.4 (0.4)	U (U)	0.39	U	0.39	U	0.4	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	--	--	0.4 (0.4)	U (U)	0.39	U	0.39	U	0.4	U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	--	0.4 (0.4)	U (U)	0.39	U	0.39	U	0.4	U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	--	0.4 (0.4)	U (U)	0.39	U	0.39	U	0.4	U
Perfluorobutanesulfonic acid (PFBS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorobutanoic Acid	--	--	--	--	0.79 (0.79)	U (U)	0.78	U	0.79	U	0.8	U
Perfluorodecanesulfonic acid (PFDS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorodecanoic acid (PFDA)	--	--	--	--	**0.098 (0.12)**	**J (J)**	**0.036**	**J**	0.2	U	0.2	U
Perfluorododecanesulfonic acid (PFDoS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorododecanoic acid (PFDoA)	--	--	--	--	**0.18 (0.23)**	**J**	**0.073**	**J**	0.2	U	0.2	U
Perfluoroheptanesulfonic acid (PFHpS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluoroheptanoic acid (PFHpA)	--	--	--	--	0.2 (0.2)	U (U)	**0.021**	**J**	0.2	U	0.2	U
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorohexanoic acid (PFHxA)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorononanoic acid (PFNA)	--	--	--	--	0.2 (0.2)	U (U)	**0.028**	**J**	0.2	U	0.2	U
Perfluorooctane Sulfonamide (PFOSA)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	0.88*	1*	440*	440*	**0.25 (0.29)**		**0.30**		0.2	U	0.2	U
Perfluorooctanoic acid (PFOA)	0.66*	0.8*	500*	600*	**0.069 (0.2)**	**J (U)**	**0.046**	**J**	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (PFPeS)	--	--	--	--	0.2 (0.2)	U (U)	0.19	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	0.4 (0.4)	U (U)	0.39	U	0.39	U	0.4	U
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	--	**0.13 (0.13)**	**J (J)**	**0.068**	**J**	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	--	--	--	--	**0.11 (0.11)**	**J (J)**	**0.067**	**J**	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	--	--	--	--	**0.086 (0.11)**	**J (J)**	**0.078**	**J**	0.2	U	0.2	U

Table 3-6
Summary of Soil Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

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SCO = Soil Cleanup Objective
µg/kg = micrograms per kilogram
* = No available SCO. Guidance value shown.
--- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
M = Manually integrated compound.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.

Table 3-7
Summary of Sediment Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-1 0.5-1 10/29/2024	SDMT-1 1-2 10/29/2024	SDMT-2 0.5-1 10/29/2024	SDMT-2 1-2 10/29/2024	SDMT-3 0.5-1 10/29/2024
Detected VOCs (mg/kg)								
1,2,4-Trimethylbenzene	<2	2 - 18	>18	**0.074 J**	**0.21**	0.048 U	0.056 U	0.002 U
1,2-Dichlorobenzene	<0.85	0.85 - 6.1	>6.1	0.093 U	**0.030 J**	0.048 U	0.056 U	0.002 U
1,3,5-Trimethylbenzene (Mesitylene)	--	--	--	**0.029 J**	0.1 U	0.048 U	0.056 U	0.002 U
Carbon Disulfide	--	--	--	0.47 U	0.52 U	**1.3**	0.28 U	0.02 U
Ethylbenzene	<0.11	0.11 - 0.75	>0.75	0.093 U	**0.41**	0.048 U	**0.021 J**	0.002 U
Isopropylbenzene (Cumene)	--	--	--	0.093 U	**0.075 J**	0.048 U	**0.0095 J**	0.002 U
m,p-Xylene	<0.091	0.091 - 0.64	>0.64	**0.029 J**	**0.23**	0.096 U	**0.027 J**	0.004 U
Methyl Acetate	--	--	--	**1.6**	**0.43 J**	**0.12 J**	**0.22 J**	0.002 U
Methyl Ethyl Ketone (2-Butanone)	--	--	--	1.9 U	2.1 U	**0.078 J**	**0.11 J**	0.04 U
Naphthalene	--	--	--	**0.029 J**	**0.19 J**	**0.016 J**	0.11 U	0.004 U
N-Butylbenzene	--	--	--	0.093 U	**0.082 J**	0.048 U	0.056 U	0.002 U
N-Propylbenzene	--	--	--	0.093 U	**0.27**	0.048 U	**0.0079 J**	0.002 U
o-Xylene (1,2-Dimethylbenzene)	<0.091	0.091 - 0.64	>0.64	**0.032 J**	**0.019 J**	0.048 U	0.056 U	0.002 U
sec-Butylbenzene	--	--	--	0.093 U	**0.040 J**	0.048 U	0.056 U	0.002 U
tert-Butylbenzene	--	--	--	0.093 U	**0.13**	0.048 U	**0.016 J**	0.002 U
Toluene	<0.8	0.8 - 3.3	>3.3	0.093 U	**0.081 J**	**0.016 J**	**0.076**	0.002 U
Xylenes	<0.091	0.091 - 0.64	>0.64	0.093 U	**0.23**	0.048 U	0.056 U	0.002 U

Table 3-7
Summary of Sediment Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-3 1-2 10/29/2024
Detected VOCs (mg/kg)				
1,2,4-Trimethylbenzene	<2	2 - 18	>18	0.0025 U
1,2-Dichlorobenzene	<0.85	0.85 - 6.1	>6.1	0.0025 U
1,3,5-Trimethylbenzene (Mesitylene)	--	--	--	0.0025 U
Carbon Disulfide	--	--	--	0.025 U
Ethylbenzene	<0.11	0.11 - 0.75	>0.75	0.0025 U
Isopropylbenzene (Cumene)	--	--	--	0.0025 U
m,p-Xylene	<0.091	0.091 - 0.64	>0.64	0.005 U
Methyl Acetate	--	--	--	0.0025 U
Methyl Ethyl Ketone (2-Butanone)	--	--	--	0.05 U
Naphthalene	--	--	--	0.005 U
N-Butylbenzene	--	--	--	0.0025 U
N-Propylbenzene	--	--	--	0.0025 U
o-Xylene (1,2-Dimethylbenzene)	<0.091	0.091 - 0.64	>0.64	0.0025 U
sec-Butylbenzene	--	--	--	0.0025 U
tert-Butylbenzene	--	--	--	0.0025 U
Toluene	<0.8	0.8 - 3.3	>3.3	0.0025 U
Xylenes	<0.091	0.091 - 0.64	>0.64	0.0025 U

Table 3-7
Summary of Sediment Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Class A Guidance Values are highlighted in green.
Concentrations detected above the Class B Guidance Values are highlighted in purple.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
VOC = volatile organic compound
mg/kg = milligrams per kilogram
-- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.
UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.

Reference:

NYSDEC, 2014. Screening and Assessment of Contaminated Sediment. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Bureau of Habitat, June 24, 2014.

Table 3-8
Summary of Sediment Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-1 0.5-1 10/29/2024	SDMT-1 1-2 10/29/2024	SDMT-2 0.5-1 10/29/2024	SDMT-2 1-2 10/29/2024	SDMT-3 0.5-1 10/29/2024	SDMT-3 1-2 10/29/2024
Detected SVOCs (mg/kg)									
Anthracene	--	--	--	**0.064 J**	**0.13 J**	**0.081 J**	**0.36**	**0.14 J**	0.21 U
Benzo(a)anthracene	--	--	--	**0.19 J**	**0.51**	**0.096 J**	**0.36**	**0.54**	0.21 U
Benzo(a)pyrene	--	--	--	**0.27**	**0.87**	**0.12 J**	**0.36**	**0.58**	0.21 U
Benzo(b)fluoranthene	--	--	--	**0.54**	**1.1**	**0.16 J**	**0.46**	**0.73**	0.21 U
Benzo(g,h,i)perylene	--	--	--	**0.27**	**0.52**	**0.071 J**	**0.18 J**	**0.38 J**	0.21 U
Benzo(k)fluoranthene	--	--	--	**0.18 J**	**0.41 J**	**0.063 J**	**0.18 J**	**0.33 J**	0.21 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	**0.17 J**	**0.46 J**	0.38 U	0.42 U	0.81 U	0.42 U
Carbazole	--	--	--	**0.068 J**	0.51 U	0.19 U	0.21 U	0.4 U	0.21 U
Chrysene	--	--	--	**0.35**	0.55	**0.11 J**	**0.42**	**0.57**	0.21 U
Dibenz(a,h)anthracene	--	--	--	0.25 U	**0.14 J**	0.19 U	0.21 U	0.4 U	0.21 U
Fluoranthene	--	--	--	**0.45**	**1.1**	**0.21**	**0.76**	**1.3**	**0.045 J**
Indeno(1,2,3-c,d)pyrene	--	--	--	**0.28**	**0.58**	**0.073 J**	**0.19 J**	**0.42**	0.21 U
Phenanthrene	--	--	--	**0.13 J**	**0.34 J**	**0.065 J**	**0.32**	**0.65**	0.21 U
Pyrene	--	--	--	**0.46**	**1.6**	**0.35**	**1.1**	**1.2**	**0.047 J**
SVOCs SIM (mg/kg)									
1,4-Dioxane	--	--	--	0.074 U	0.075 U	0.056 U	0.063 U	0.059 U	0.061 U
Total PAHs (mg/kg)									
Total PAHs	<4	4 - 45	>45	**3.422**	**7.76**	**1.399**	**4.69**	**6.84**	**0.092**

Table 3-8
Summary of Sediment Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Class A Guidance Values are highlighted in green.
Concentrations detected above the Class B Guidance Values are highlighted in purple.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
mg/kg = milligrams per kilogram
-- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:

NYSDEC, 2014. Screening and Assessment of Contaminated Sediment. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Bureau of Habitat, June 24, 2014.

Table 3-9
Summary of Sediment Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-1 0.5-1 10/29/2024	SDMT-1 1-2 10/29/2024	SDMT-2 0.5-1 10/29/2024	SDMT-2 1-2 10/29/2024	SDMT-3 0.5-1 10/29/2024	SDMT-3 1-2 10/29/2024
GenChem									
Cyanide (mg/kg)	--	--	--	0.68 U	0.67 U	0.56 U	0.55 U	0.59 U	0.59 U
Percent Solids (%)	--	--	--	**66.2**	**66.4**	**87.8**	**79.1**	**83.5**	**80.1**
Metals (mg/kg)									
Aluminum	--	--	--	**4600**	**5100**	**5800**	**5300**	**1100**	**6000**
Antimony	--	--	--	2.4 U	2.5 U	1.9 U	2 U	1.9 U	2 U
Arsenic	<8.2	8.2 - 70	>70	**5.2**	**8.1**	**5.5**	**5.6**	**1.9 J**	**14**
Barium	--	--	--	**19**	**47**	**21**	**23**	**14**	**12**
Beryllium	--	--	--	**0.28**	**0.32**	**0.30**	**0.30**	**0.086 J**	**0.68**
Cadmium	<1.2	1.2 - 9.6	>9.6	0.47 U	**0.70**	0.37 U	**0.40**	0.38 U	0.4 U
Calcium	--	--	--	**1500**	**3000**	**920**	**1300**	**10000**	**2300**
Chromium	<81	81 - 370	>370	**15**	**19**	**9.6**	**11**	**3.8**	**12**
Cobalt	--	--	--	**2.6**	**3.2**	**3.2**	**2.7**	**0.69 J**	**4.9**
Copper	<34	34 - 270	>270	**38**	**57**	**12**	**21**	**14**	**3.5**
Iron	--	--	--	**9100**	**13000**	**8000**	**9300**	**2600**	**9200**
Lead	<47	47 - 220	>220	**57**	**270**	**26**	**84**	**57**	**27**
Magnesium	--	--	--	**2600**	**3400**	**1700**	**1900**	**4400**	**1300**
Manganese	--	--	--	**110**	**170**	**70**	**100**	**38**	**51**
Nickel	<21	21 - 52	>52	**7.3**	**9.1**	**5.9**	**7.0**	**2.2**	**3.9**
Potassium	--	--	--	**1100**	**1000**	**670**	**710**	**310**	**500**
Selenium	--	--	--	4.7 U	4.9 U	3.7 U	4 U	3.8 U	4 U
Silver	<1	1 - 3.7	>3.7	0.47 U	**0.41 J**	0.37 U	0.4 U	0.38 U	0.4 U
Sodium	--	--	--	**4700**	**4300**	**1800**	**2200**	**2800**	**2000**
Thallium	--	--	--	2.4 U	2.5 U	1.9 U	2 U	1.9 U	2 U
Vanadium	--	--	--	**17**	**20**	**12**	**13**	**3.6**	**46**
Zinc	<150	150 - 410	>410	**77**	**140**	**28**	**67**	**30**	**19**
Mercury	<0.15	0.15 - 0.71	>0.71	**0.11**	**0.37**	**0.086**	**0.13**	**0.32**	**0.040**

Table 3-9
Summary of Sediment Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Class A Guidance Values are highlighted in green.
Concentrations detected above the Class B Guidance Values are highlighted in purple.
Duplicate sample results are in parentheses.

Definitions:

GenChem = General Chemistry
NYSDEC = New York State Department of Environmental Conservation
mg/kg = milligrams per kilogram
-- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:

NYSDEC, 2014. Screening and Assessment of Contaminated Sediment. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Bureau of Habitat, June 24, 2014.

Table 3-10
Summary of Sediment Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-1 0.5-1 10/29/2024		SDMT-1 1-2 10/29/2024		SDMT-2 0.5-1 10/29/2024		SDMT-2 1-2 10/29/2024		SDMT-3 0.5-1 10/29/2024		SDMT-3 1-2 10/29/2024	
Pesticides (mg/kg)															
Aldrin	--	--	--	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
alpha-Endosulfan	<0.0001	0.0001 - 0.003	>0.003	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
alpha-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	--	--	--	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
beta-Endosulfan	<0.001	0.0001 - 0.003	>0.003	0.12	U	0.11	U	0.044	U	0.049	U	0.046	U	0.0095	U
beta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	--	--	--	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
cis-Chlordane	<0.063	0.063-1.4	>1.4	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
delta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	--	--	--	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
Dieldrin	<0.006	0.006 - 2.3	>2.3	0.058	U	0.057	U	0.022	U	0.025	U	0.023	U	0.0048	U
Endosulfan Sulfate	--	--	--	0.12	U	0.11	U	0.044	U	0.049	U	0.046	U	0.0095	U
Endrin	<0.006	0.006 - 0.096	>0.096	0.12	U	0.11	U	0.044	U	0.049	U	0.046	U	0.0095	U
Endrin Aldehyde	--	--	--	0.12	U	0.11	U	0.044	U	0.049	U	0.046	U	0.0095	U
Endrin Ketone	--	--	--	0.12	U	0.11	U	0.044	U	0.049	U	0.046	U	0.0095	U
gamma-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	--	--	--	0.029	U	0.029	U	0.011	U	0.012	U	0.011	U	0.0024	U
Heptachlor	<0.071	0.071 - 1.1	>1.1	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
Heptachlor Epoxide	<0.015	0.015 - 0.22	>0.22	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
Methoxychlor	<0.059	0.059 - --	--	0.73	U	0.71	U	0.27	U	0.31	U	0.29	U	0.059	U
4,4'-DDD	--	--	--	0.058	U	**0.25**		**0.0058**	**J**	**0.012**	**J**	0.023	U	0.0048	U
4,4'-DDE	--	--	--	0.058	U	**0.050**	**J**	**0.0096**	**J**	**0.0097**	**J**	0.023	U	0.0048	U
4,4'-DDT	<0.044	0.044 - 5.7	>5.7	0.058	U	**0.032**	**J**	0.022	U	0.025	U	0.023	U	0.0048	U
Toxaphene	<0.054	0.054 -0.076	>0.076	1.5	U	1.4	U	0.54	U	0.62	U	0.57	U	0.12	U
trans-Chlordane	<0.063	0.063 - 1.4	>1.4	0.073	U	0.071	U	0.027	U	0.031	U	0.029	U	0.0059	U
Herbicides (mg/kg)															
MCPP	--	--	--	5.22	U	5.16	U	3.96	U	4.7	U	4.34	U	4.38	U
MCPA	--	--	--	5.22	U	5.16	U	3.96	U	4.7	U	4.34	U	4.38	U
Dalapon	--	--	--	0.0522	U	0.0516	U	0.0396	U	0.047	U	0.0434	U	0.0438	U
Dicamba	<0.63	0.63 - 4.2	>4.2	0.0522	U	0.0516	U	0.0396	U	0.047	U	0.0434	U	0.0438	U
Dichloroprop	--	--	--	0.0522	U	0.0516	U	0.0396	U	0.047	U	0.0434	U	0.0438	U
2,4-D	--	--	--	0.261	U	0.258	U	0.198	U	0.235	U	0.217	U	0.219	U
2,4-DB	--	--	--	0.261	U	0.258	U	0.198	U	0.235	U	0.217	U	0.219	U
2,4,5-T	--	--	--	0.261	U	0.258	U	0.198	U	0.235	U	0.217	U	0.219	U
2,4,5-TP (Silvex)	---	--	--	0.261	U	0.258	U	0.198	U	0.235	U	0.217	U	0.219	U

Table 3-10
Summary of Sediment Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Class A Guidance Values are highlighted in green.
Concentrations detected above the Class B Guidance Values are highlighted in purple.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
mg/kg = milligrams per kilogram
-- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:

NYSDEC, 2014. Screening and Assessment of Contaminated Sediment. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Bureau of Habitat, June 24, 2014.

Table 3-11
Summary of Sediment Sample Results - PCBs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-1 0.5-1 10/29/2024	SDMT-1 1-2 10/29/2024	SDMT-2 0.5-1 10/29/2024	SDMT-2 1-2 10/29/2024	SDMT-3 0.5-1 10/29/2024	SDMT-3 1-2 10/29/2024
PCBs (mg/kg)									
Aroclor 1016	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1221	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1232	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1242	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1248	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1254	--	--	--	0.12 U	**0.25**	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1260	--	--	--	0.12 U	**0.14**	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1262	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Aroclor 1268	--	--	--	0.12 U	0.12 U	0.09 U	0.1 U	0.095 U	0.099 U
Total PCBs	<0.1	0.1 - 1	>1	0.12 U	**0.39**	0.09 U	0.1 U	0.095 U	0.099 U

Table 3-11
Summary of Sediment Sample Results - PCBs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Class A Guidance Values are highlighted in green.
Concentrations detected above the Class B Guidance Values are highlighted in purple.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
mg/kg = milligrams per kilogram
-- = No regulatory criteria exists for respective analyte.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:

NYSDEC, 2014. Screening and Assessment of Contaminated Sediment. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Bureau of Habitat, June 24, 2014.

Table 3-12
Summary of Sediment Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location Sample Interval (Feet) Sample Date	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS A	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS B	NYSDEC TABLE 6: SALTWATER SEDIMENT GUIDANCE VALUE, CLASS C	SDMT-1 0.5-1 10/29/2024		SDMT-1 1-2 10/29/2024		SDMT-2 0.5-1 10/29/2024		SDMT-2 1-2 10/29/2024		SDMT-3 0.5-1 10/29/2024		SDMT-3 1-2 10/29/2024	
PFAS (µg/kg)															
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	--	5	U	4.9	U	5	U	4.9	U	4.9	U	4.9	U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	--	5	U	4.9	U	5	U	4.9	U	4.9	U	4.9	U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	--	--	0.99	U	0.98	U	0.99	U	0.98	U	0.99	U	0.98	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	--	--	0.2	U	**0.23**		0.2	U	0.2	U	0.2	U	0.2	U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	--	--	2	U	2	U	2	U	2	U	2	U	2	U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	--	--	2	U	2	U	2	U	2	U	2	U	2	U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	--	0.4	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	--	0.4	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	--	0.4	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	--	0.4	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluorobutanesulfonic acid (PFBS)	--	--	--	**0.39**		0.2	U	0.2	U	**0.46**		0.2	U	0.2	U
Perfluorobutanoic Acid	--	--	--	0.79	U	0.78	U	0.79	U	0.78	U	0.79	U	0.79	U
Perfluorodecanesulfonic acid (PFDS)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic acid (PFDA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanesulfonic acid (PFDoS)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic acid (PFDoA)	--	--	--	**0.13**	**J**	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic acid (PFHpS)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic acid (PFHpA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic acid (PFHxA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic acid (PFNA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctane Sulfonamide (PFOSA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic acid (PFOS)	--	--	--	**0.14**	**J**	**0.16**	**J**	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanoic acid (PFOA)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (PFPeS)	--	--	--	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	--	--	--	0.4	U	0.39	U	0.4	U	0.39	U	0.4	U	0.39	U
Perfluorotetradecanoic acid (PFTeDA)	--	--	--	**0.14**	**J**	**0.072**	**J**	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	--	--	--	**0.21**		**0.12**	**J**	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	--	--	--	**0.085**	**J**	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 3-12
Summary of Sediment Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:

Concentrations detected above the laboratory reporting limit are in **bold**.
Concentrations detected above the Class A Guidance Values are highlighted in green.
Concentrations detected above the Class B Guidance Values are highlighted in purple.
Duplicate sample results are in parentheses.

Definitions:

NYSDEC = New York State Department of Environmental Conservation
PFAS = per- and polyfluoroalkyl substances
µg/kg = micrograms per kilogram
--- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:

NYSDEC, 2014. Screening and Assessment of Contaminated Sediment. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Bureau of Habitat, June 24, 2014.

Table 3-13
Summary of Groundwater and Surface Water Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	DPT-1 11-13 10/23/2024	DPT-1 15-17 10/23/2024	DPT-2 5-7 10/24/2024	DPT-2 15-17 10/24/2024	DPT-3 9.5-11.5 10/22/2024	DPT-3 20-22 10/22/2024	DPT-4 10-12 10/25/2024	DPT-4 20-22 10/25/2024
Detected VOCs (µg/l)									
1,1-Dichloroethane	5	1 U	**0.18 J**	**1.2**	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	**0.23 J**	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	1 U	1 U	**24**	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1 U	1 U	**5.8**	1 U	1 U	1 U	1 U	1 U
2-Methoxy-2-Methylbutane	--	0.5 U	0.5 U	**0.50**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methyl-2-Butanol	--	5 U	5 U	**40**	5 U	5 U	5 U	5 U	5 U
Acetone	50	**3.2 J**	50 U	50 U	50 U	50 U	50 U	50 U	4.2 J
Benzene	1	**0.15 J**	1 U	**28**	1 U	1 U	1 U	1 U	1 U
Chloroform	7	2 U	**0.61 J**	2 U	**0.55 J**	2 U	**0.60 J**	2 U	2 U
cis-1,2-Dichlorethene	5	1 U	**0.33 J**	**7.3**	1 U	1 U	1 U	1 U	1 U
Cyclohexane	--	5 U	5 U	**16**	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	1 U	1 U	**14**	1 U	1 U	1 U	1 U	1 U
Isopropyl Ether	--	**0.31 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene (Cumene)	5	1 U	1 U	**5.2**	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	--	2 U	2 U	**19**	2 U	2 U	2 U	2 U	2 U
Methylcyclohexane	**--**	1 U	1 U	**8.1**	1 U	1 U	1 U	1 U	1 U
Naphthalene	10*	2 U	2 U	**1.7 J**	2 U	**0.58 J**	2 U	2 U	2 U
N-Butylbenzene	5	1 U	1 U	**3.8**	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	5	1 U	1 U	**7.9**	1 U	1 U	1 U	1 U	1 U
o-Xylene (1,2-Dimethylbenzene)	5	1 U	1 U	**13**	1 U	1 U	1 U	1 U	1 U
p-Cymene (p-Isopropyltoluene)	5	1 U	1 U	**0.78 J**	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5	1 U	1 U	**3.8**	1 U	1 U	1 U	1 U	1 U
tert-Butyl Alcohol	--	**130**	20 U	**18 J**	20 U	**16 J**	20 U	**12 J**	20 U
tert-Butyl Methyl Ether	10	**2.5**	**0.32 J**	**13**	1 U	**0.96 J**	**0.40 J**	**2.0**	**0.29 J**
tert-Butylbenzene	5	1 U	1 U	**0.52 J**	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)	5	1 U	**0.35 J**	1 U	0.41 J	1 U	**0.36 J**	1 U	1 U
Toluene	5	1 U	1 U	**40**	1 U	**1.3**	1 U	1 U	**1.1**
Trichloroethene (TCE)	5	1 U	1 U	**0.24 J**	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	2 U	2 U	**31**	2 U	2 U	2 U	2 U	2 U
Xylenes	5	1 U	1 U	**33**	1 U	1 U	1 U	1 U	1 U

Table 3-13
Summary of Groundwater and Surface Water Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-1S 5-7 11/12/2024	MW-1M 15-17 11/11/2024	MW-1D 19-21 11/12/2024	MW-2S 5-7 11/12/2024	MW-2M 12-Oct 11/11/2024	MW-2D 23-25 11/11/2024	MW-3S 5-7 11/12/2024	MW-3M 15-17 11/11/2024	MW-3D 21-23 11/11/2024	MW-4S 5-7 11/12/2024	MW-4M 11-13 11/11/2024	MW-4D 26-28 11/11/2024
Detected VOCs (µg/l)													
1,1-Dichloroethane	5	1 (0.18) U (J)	1 U	**0.19 J**	1 U	1 U	**0.15 J**	1 U	**0.27 J**	**0.17 J**	1 U	1 U	**0.21 J**
1,1-Dichloroethene	5	1 (1) U (U)	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
1,2,4-Trimethylbenzene	5	1 (1) U (U)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1 (1) U (U)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Methoxy-2-Methylbutane	--	0.5 (0.5) U (U)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Methyl-2-Butanol	--	**6.8** (5) (U)	5 U	5 U	**4.6 J**	**4.6 J**	5 U	0.5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	50 (50) U (U)	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	5 U	50 UJ	50 UJ	4.7 UJ	50 UJ	50 U
Benzene	1	**19** (1) (U)	11 UJ	1 U	7.0 UJ	7.8 UJ	1 U	9.2 UJ	1 U	1 U	0.24 UJ	0.28 UJ	1 U
Chloroform	7	2 **(0.53)** U **(J)**	2 U	**0.50 J**	2 U	2 U	**0.69 J**	2 U	2 U	**0.76 J**	2 U	2 U	**0.56 J**
cis-1,2-Dichlorethene	5	**0.47** (1) **J** (U)	0.57 J	1 U	**1.1**	**1.0**	1 U	2 U	1 U	1 U	**1.2**	**1.4**	1 U
Cyclohexane	--	5 (5) U (U)	5 U	5 U	**3.5 J**	**3.9 J**	5 U	0.5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	1 (1) U (U)	1 U	1 U	**0.19 J**	**0.25 J**	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U
Isopropyl Ether	--	**0.29** (0.5) **J** (U)	**0.21 J**	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene (Cumene)	5	**3.8** (1) (U)	**1.7**	1 U	**0.99 J**	**1.2**	1 U	0.5 U	1 U	1 U	1 U	**0.44 J**	1 U
m,p-Xylene	--	**1.5** (2) **J** (U)	**0.51 J**	2 U	**0.66 J**	**0.90 J**	2 U	1 U	2 U	2 U	2 U	2 U	2 U
Methylcyclohexane	**--**	**1.9** (1) (U)	**1.7**	1 U	**1.8**	2.0	1 U	10 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	10*	2 (2) U (U)	2 U	2 U	2 U	2 U	2 U	5 UJ	2 U	2 U	2 U	2 U	2 U
N-Butylbenzene	5	**1.5** (1) (U)	**0.56 J**	1 U	**0.32 J**	**0.43 J**	1 U	2 U	1 U	1 U	1 U	1 U	1 U
N-Propylbenzene	5	**3.2** (1) (U)	**1.5**	1 U	**0.64 J**	**0.86 J**	1 U	1 U	1 U	1 U	1 U	**0.28 J**	1 U
o-Xylene (1,2-Dimethylbenzene)	5	**0.91** (1) **J** (U)	**0.44 J**	1 U	**0.34 J**	**0.49 J**	1 U	1 U	1 U	1 U	1 U	**0.17 J**	1 U
p-Cymene (p-Isopropyltoluene)	5	**14** (1) (U)	**3.2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	5	**2.6** (1) (U)	**1.0**	1 U	**0.66 J**	**0.80 J**	1 U	1 U	1 U	1 U	1 U	**0.24 J**	1 U
tert-Butyl Alcohol	--	**69** (20) (U)	**52**	20 U	20 U	**6.3 J**	20 U	1 U	20 U	20 U	**25**	**24**	20 U
tert-Butyl Methyl Ether	10	**16 (0.21) (J)**	**12**	**0.19 J**	**3.9**	**4.4**	0.52 J	20 U	**0.19 J**	**0.60 J**	**2.0**	**2.5**	0.48 J
tert-Butylbenzene	5	**0.79** (1) **J (U)**	**0.32 J**	1 U	1 U	**0.18 J**	1 U	**7.4**	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)	5	1 **(0.63)** U **(J)**	**0.19 J**	**0.41 J**	1 U	1 U	**0.46 J**	1 U	1 U	0.48 J	1 U	1 U	**0.47 J**
Toluene	5	**0.46** (1) **J (U)**	**0.16 J**	1 U	**0.38 J**	**0.48 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene (TCE)	5	1 (1) U (U)	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	**0.20 J**	1 U
Vinyl Chloride	2	**0.76** (2) **J** (U)	**1.4 J**	2 U	**1.4 J**	**1.2 J**	2 U	2 U	2 U	2 U	**0.42 J**	0.75 J	2 U
Xylenes	5	**2.4** (1) (U)	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U

Table 3-13
Summary of Groundwater and Surface Water Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	NYSDEC TOGS 1.1.1 (CLASS SC, TYPE A(A)/A(C) SALINESURFACE WATER)	SW-1 Surface Water 10/29/2024	SW-2 Surface Water 10/29/2024	SW-3 Surface Water 10/29/2024
Detected VOCs (µg/l)					
1,1-Dichloroethane	5	--	1 U	1 (1) U (U)	1 U
1,1-Dichloroethene	5	--	1 U	1 (1) U (U)	1 U
1,2,4-Trimethylbenzene	5	19*	1 U	1 (1) U (U)	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	--	1 U	1 (1) U (U)	1 U
2-Methoxy-2-Methylbutane	--	--	0.5 U	0.5 (0.5) U (U)	0.5 U
2-Methyl-2-Butanol	--	--	5 U	5 (5) U (U)	5 U
Acetone	50	--	50 UJ	50 (50) UJ (UJ)	2.6 UJ
Benzene	1	190*	1 U	1 (1) U (U)	1 U
Chloroform	7	--	2 U	2 (2) U (U)	2 U
cis-1,2-Dichlorethene	5	--	1 U	1 (1) U (U)	**1.5**
Cyclohexane	--	--	5 U	5 (5) U (U)	5 U
Ethylbenzene	5	4.5*	1 U	1 (1) U (U)	1 U
Isopropyl Ether	--	--	0.5 U	0.5 (0.5) U (U)	0.5 U
Isopropylbenzene (Cumene)	5	--	1 U	1 (1) U (U)	1 U
m,p-Xylene	--	--	2 U	2 (2) U (U)	2 U
Methylcyclohexane	**--**	--	1 U	1 (1) U (U)	1 U
Naphthalene	10*	--	2 U	2 (2) U (U)	2 U
N-Butylbenzene	5	--	1 U	1 (1) U (U)	1 U
N-Propylbenzene	5	--	1 U	1 (1) U (U)	1 U
o-Xylene (1,2-Dimethylbenzene)	5	--	1 U	1 (1) U (U)	1 U
p-Cymene (p-Isopropyltoluene)	5	--	1 U	1 (1) U (U)	1 U
sec-Butylbenzene	5	--	1 U	1 (1) U (U)	1 U
tert-Butyl Alcohol	--	--	20 U	20 (20) U (U)	20 U
tert-Butyl Methyl Ether	10	--	1 U	1 (1) U (U)	1 U
tert-Butylbenzene	5	--	1 U	1 (1) U (U)	1 U
Tetrachloroethene (PCE)	5	--	**0.43 J**	**0.28 (0.25) J (J)**	1 U
Toluene	5	92*	1 U	1 (1) U (U)	1 U
Trichloroethene (TCE)	5	--	1 U	1 (1) U (U)	1 U
Vinyl Chloride	2	--	2 U	2 (2) U (U)	**1.1 J**
Xylenes	5	5*	1 U	1 (1) U (U)	1 U

Table 3-13
Summary of Groundwater and Surface Water Sample Results - VOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Concentrations detected above the General Ambient Standard or Guidance Value are highlighted yellow.
Concentrations detected above the Water Class SC Fish Propogation (A(C)) or Fish Survival (A(A)) Standard or Guidance Value are highlighted orange.
Duplicate sample results are in parentheses.

Definitions:
NYSDEC = New York State Department of Environmental Conservation
TOGS 1.1.1 = Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 1998)
VOC = volatile organic compound
ug/l = micrograms per liter
--- = No regulatory criteria exists for respective analyte.
* = No available groundwater standard. Guidance value shown.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.
NYSDEC. 2023. Division of Water Technical and Operational Guidance Series Addendum to June 1998 (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

Table 3-14
Summary of Groundwater and Surface Water Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	DPT-1 11-13 10/23/2024	DPT-1 15-17 10/23/2024	DPT-2 5-7 10/24/2024	DPT-2 15-17 10/24/2024	DPT-3 9.5-11.5 10/22/2024	DPT-3 20-22 10/22/2024
Detected SVOCs (µg/l)							
1-Methylnaphthalene	--	4.7 U	9.4 U	**92**	4.5 U	5.3 U	5.1 U
Acenaphthene	20	4.7 U	9.4 U	**5.1**	4.5 U	5.3 U	5.1 U
Benzaldehyde	--	9.5 U	19 U	9.4 U	9 U	11 U	**2.6 J**
Dibenzofuran	--	4.7 U	4.7 UJ	**4.4 J**	4.5 U	5.3 U	5.1 U
Fluoranthene	50	4.7 U	9.4 UJ	4.7 U	4.5 U	**0.92 J**	5.1 U
Fluorene	50	4.7 U	4.7 U	**7.9**	4.5 U	5.3 U	5.1 U
Naphthalene	10	4.7 U	9.4 U	**1.5 J**	4.5 U	5.3 U	5.1 U
N-Nitrosodiphenylamine	50	9.5 U	9.4 U	**1.3 J**	9 U	11 U	10 U
Phenanthrene	50	4.7 U	9.4 U	**8.3**	4.5 U	**2.5 J**	5.1 U
Phenol	1	9.5 U	4.7 U	**1.8 J**	9 U	11 U	10 U
Pyrene	50	4.7 U	9.4 U	4.7 U	4.5 U	**0.66 J**	5.1 U
SVOCs SIM (µg/l)							
1,4-Dioxane	0.35*	--	**0.32**	--	**0.25 J+**	--	--

Table 3-14
Summary of Groundwater and Surface Water Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	DPT-4 10-12 10/25/2024	DPT-4 20-22 10/25/2024	MW-1S 5-7 11/12/2024	MW-1D 19-21 11/12/2024	MW-2S 5-7 11/12/2024	MW-3S 5-7 11/12/2024	MW-4S 5-7 11/12/2024
Detected SVOCs (µg/l)								
1-Methylnaphthalene	--	4.6 U	5.2 U	**15**	5 U	**5.8**	4.5 U	**1.5 J**
Acenaphthene	20	4.6 U	5.2 U	**2.8 J**	5 U	4.7 U	4.5 U	4.6 U
Benzaldehyde	--	9.2 U	10 U	9.7 U	10 U	9.4 U	9.1 U	9.3 U
Dibenzofuran	--	4.6 U	5.2 U	**1.1 J**	5 U	4.7 U	4.5 U	4.6 U
Fluoranthene	50	4.6 U	5.2 U	4.8 U	5 U	4.7 U	4.5 U	4.6 U
Fluorene	50	4.6 U	5.2 U	**1.8 J**	5 U	4.7 U	4.5 U	4.6 U
Naphthalene	10	4.6 U	5.2 U	4.8 U	5 U	4.7 U	4.5 U	4.6 U
N-Nitrosodiphenylamine	50	9.2 U	10 U	9.7 U	10 U	9.4 U	9.1 U	9.3 U
Phenanthrene	50	4.6 U	5.2 U	4.8 U	5 U	4.7 U	4.5 U	4.6 U
Phenol	1	9.2 U	10 U	9.7 U	10 U	9.4 U	9.1 U	9.3 U
Pyrene	50	4.6 U	5.2 U	4.8 U	5 U	4.7 U	4.5 U	4.6 U
SVOCs SIM (µg/l)								
1,4-Dioxane	0.35*	--	--	**0.39**	**0.25**	0.2 U	**0.27**	**0.17 J**

Table 3-14
Summary of Groundwater and Surface Water Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	NYSDEC TOGS 1.1.1 (CLASS SC, TYPE A(A)/A(C) SALINESURFACE WATER)	SW-1 Surface Water 10/29/2024	SW-2 Surface Water 10/29/2024	SW-3 Surface Water 10/29/2024
Detected SVOCs (µg/l)					
1-Methylnaphthalene	--	--	4.7 U	5 (4.6) U (U)	4.7 U
Acenaphthene	20	6.6*	4.7 U	5 (4.6) U (U)	4.7 U
Benzaldehyde	--	--	9.5 U	10 (9.3) U (U)	9.5 U
Dibenzofuran	--	--	4.7 U	5 (4.6) U (U)	4.7 U
Fluoranthene	50	--	4.7 U	5 (4.6) U (U)	4.7 U
Fluorene	50	2.5*	4.7 U	5 (4.6) U (U)	4.7 U
Naphthalene	10	16*	4.7 U	5 (4.6) U (U)	4.7 U
N-Nitrosodiphenylamine	50	--	9.5 U	10 (2.0) U (J)	9.5 U
Phenanthrene	50	1.5*	4.7 U	5 (4.6) U (U)	4.7 U
Phenol	1	--	9.5 U	10 (9.3) U (U)	9.5 U
Pyrene	50	--	4.7 U	5 (4.6) U (UJ)	4.7 U
SVOCs SIM (µg/l)					
1,4-Dioxane	0.35*	7000*	**0.12 J**	**0.13 (0.14) J (J)**	0.2 U

Table 3-14
Summary of Groundwater and Surface Water Sample Results - SVOCs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Concentrations detected above the General Ambient Standard or Guidance Value are highlighted yellow.
Concentrations detected above the Water Class SC Fish Propogation (A(C)) or Fish Survival (A(A)) Standard or Guidance Value are highlighted orange.
Duplicate sample results are in parentheses.

Definitions:
NYSDEC = New York State Department of Environmental Conservation
SVOC = semivolatile organic compound
SIM = Single Ion Monitoring
TOGS 1.1.1 = Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 1998)
ug/l = micrograms per liter
--- = No regulatory criteria exists for respective analyte.
* = No available groundwater standard. Guidance value shown.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.
UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.
X = The sample results were affected by serious defficiencies in the ability to analyze the sample and to meet published method and project quality control criteria.
The oresence or absence of the analyte cannot be substantiated by the data provided.

Reference:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.
NYSDEC. 2023. Division of Water Technical and Operational Guidance Series Addendum to June 1998 (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

Table 3-15
Summary of Groundwater and Surface Water Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-1S 5-7 11/11/2024	MW-1D 19-21 11/12/2024	MW-3S 5-7 11/12/2024	MW-4S 5-7 11/12/2024
Gen Chem (µg/l)					
Cyanide	200	10 (10) U (U	10 U	10 U	10 U
Hexavalent Chromium	50	4 (4) U (U	--	--	--
Metals Total (µg/l)					
Aluminum	--	**56**	**310**	**7200 [87]**	--
Antimony	3	50 U	50 U	50 **[28]** U **[J]**	--
Arsenic	25	10 U	10 U	**10 [9.9]** [J]	--
Barium	1,000	**440**	**24 J**	**150 [98]**	--
Beryllium	3	4 U	4 U	4 [4] U [U]	--
Cadmium	5	4 U	4 U	4 [4] U [U]	--
Calcium	--	**180000**	**23000**	**85000 [78000]**	--
Chromium	50	10 U	10 U	**23** [10] [U]	--
Cobalt	--	10 U	10 U	**12 [3] [J]**	--
Copper	200	10 U	10 U	**17** [10] [U]	--
Iron	300	**29000**	**560**	**17000 [140]**	--
Lead	25	10 U	10 U	**39** [10] [U]	--
Magnesium	35,000	**20000**	**7300**	**36000 [35000]**	--
Manganese	300	**840**	**170**	**8700 [8200]**	--
Nickel	100	10 U	10 U	**16 [6.2] [J]**	--
Potassium	--	**12000**	**2100**	**19000 [17000]**	--
Selenium	10	50 U	50 U	50 [50] U [U]	--
Silver	50	10 U	10 U	10 [10] U [U]	--
Sodium	20,000	**740000**	**23000**	**390000 [370000]**	--
Thallium	0.5	50 U	50 U	50 [50] U [U]	--
Vanadium	--	**8.7 J**	10 U	**44 [6.2] [J]**	--
Zinc	2,000	10 U	**21**	**100 [20]**	--
Mercury	0.7	0.2 U	0.2 U	**0.13** [0.2] **J** [U]	--

Table 3-15
Summary of Groundwater and Surface Water Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	NYSDEC TOGS 1.1.1 (CLASS SC, TYPE A(A)/A(C) SALINESURFACE WATER)	SW-1 Surface Water 10/29/2024	SW-2 Surface Water 10/29/2024	SW-3 Surface Water 10/29/2024
Gen Chem (µg/l)					
Cyanide	200	1	10 U	10 U (U)	10 U
Hexavalent Chromium	50	54	--	--	--
Metals Total (µg/l)					
Aluminum	--	--	**53**	**98 (76)**	**1700**
Antimony	3	--	50 U	50 (50) U (U)	50 U
Arsenic	25	63	10 U	10 (10) U (U)	**12**
Barium	1,000	--	**38 J**	**34 (34) J (J)**	**23 J**
Beryllium	3	--	4 U	4 (4) U (U)	4 U
Cadmium	5	7.7	4 U	4 (4) U (U)	4 U
Calcium	--	--	**37000**	**39000 (38000)**	**250000**
Chromium	50	--	10 U	10 (10) U (U)	**6.7 J**
Cobalt	--	--	10 U	10 (10) U (U)	**3 J**
Copper	200	3.4	10 U	10 (10) U (U)	**39**
Iron	300	--	**170**	**270 (240)**	**3400**
Lead	25	8	**5.5 J**	**5.7 (5.7) J (J)**	**20**
Magnesium	35,000	--	**49000**	**59000 (58000)**	**670000**
Manganese	300	--	**23**	**25 (25)**	**200**
Nickel	100	8.2	10 U	**5** (10) **J** (U)	**11**
Potassium	--	--	**16000**	**19000 (19000)**	**260000**
Selenium	10	--	50 U	50 (50) U (U)	50 U
Silver	50	--	10 U	10 (10) U (U)	10 U
Sodium	20,000	--	**390000**	**520000 (470000)**	**6600000**
Thallium	0.5	--	50 U	50 (50) U (U)	50 U
Vanadium	--	--	**6.5 J**	**6.5 (6.7) J (J)**	10 U
Zinc	2,000	66	10 U	10 (10) U (U)	**29**
Mercury	0.7	--	0.2 U	0.2 (0.2) U (U)	0.2 U

Table 3-15
Summary of Groundwater and Surface Water Sample Results - General Chemistry and Metals
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Concentrations detected above the General Ambient Standard or Guidance Value are highlighted yellow.
Concentrations detected above the Water Class SC Fish Propogation (A(C)) or Fish Survival (A(A)) Standard or Guidance Value are highlighted orange.
Duplicate sample results are in parentheses.
Dissolved metals results are in brackets

Definitions:
GenChem = General Chemistry
NYSDEC = New York State Department of Environmental Conservation
TOGS 1.1.1 = Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 1998)
ug/l = micrograms per liter
-- = No regulatory criteria exists for respective analyte.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.
NYSDEC. 2023. Division of Water Technical and Operational Guidance Series Addendum to June 1998 (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

Table 3-16
Summary of Groundwater and Surface Water Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-1S 5-7 11/12/2024	MW-1D 19-21 11/12/2024	MW-3S 5-7 11/12/2024
Pesticides (µg/l)				
Aldrin	Non-Detect	0.049 (0.048) U (U)	0.049 U	0.046 U
alpha-Endosulfan	--	0.049 (0.048) U (U)	0.049 U	0.046 U
alpha-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.01	0.049 (0.048) U (U)	0.049 U	0.046 U
beta-Endosulfan	--	0.078 (0.077) U (U)	0.078 U	0.074 U
beta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.04	0.049 (0.048) U (U)	0.049 U	0.046 U
cis-Chlordane	0.05	0.049 (0.048) U (U)	0.049 U	0.046 U
delta-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.04	0.049 (0.048) U (U)	0.049 U	0.046 U
Dieldrin	0.004	0.002 (0.0019) U (U)	0.0019 U	0.0018 U
Endosulfan Sulfate	--	0.078 (0.077) U (U)	0.078 U	0.074 U
Endrin	Non-Detect	0.078 (0.077) U (U)	0.078 U	0.074 U
Endrin Aldehyde	5	0.078 (0.077) U (U)	0.078 U	0.074 U
Endrin Ketone	5	0.078 (0.077) U (U)	0.078 U	0.074 U
gamma-HCH (1,2,3,4,5,6-Hexachlorocyclohexane)	0.05	0.029 (0.029) U (U)	0.029 U	0.028 U
Heptachlor	0.04	0.049 (0.048) U (U)	0.049 U	0.046 U
Heptachlor Epoxide	0.03	0.049 (0.048) U (U)	0.049 U	0.046 U
Methoxychlor	35	0.49 (0.48) U (U)	0.49 U	0.46 U
4,4'-DDD	0.03	0.039 (0.038) U (U)	0.039 U	0.037 U
4,4'-DDE	0.2	0.039 (0.038) U (U)	0.039 U	0.037 U
4,4'-DDT	0.2	0.039 (0.038) U (U)	0.039 U	0.037 U
Toxaphene	0.06	0.98 (0.96) U (U)	0.97 U	0.92 U
trans-Chlordane	0.05	0.049 (0.048) U (U)	0.049 U	0.046 U
Herbicides (µg/l)				
2,4,5-T	35	2 (2) U (U)	2 U	2 U
2,4,5-TP (SILVEX)	0.26	2 (2) U (U)	2 U	2 U
2,4-D	50	10 (10) U (U)	10 U	10 U
2,4-DB	--	10 (10) U (U)	10 U	10 U
DALAPON	50	20 (20) U (U)	20 U	20 U
DICAMBA	0.44	1 (1) U (U)	1 U	1 U
DICHLOROPROP	--	10 (10) U (U)	10 U	10 U
DINOSEB	1	5 (5) UJ (UJ)	5 UJ	5 UJ
MCPA	0.44	500 (500) U (U)	500 U	500 U
MCPP	--	500 (500) U (U)	500 U	500 U

Table 3-16
Summary of Groundwater and Surface Water Sample Results - Pesticides and Herbicides
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Concentrations detected above the General Ambient Standard or Guidance Value are highlighted yellow.
Concentrations detected above the Water Class SC Fish Propogation (A(C)) or Fish Survival (A(A)) Standard or Guidance Value are highlighted orange.
Duplicate sample results are in parentheses.

Definitions:
NYSDEC = New York State Department of Environmental Conservation
TOGS 1.1.1 = Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 1998)
ug/l = micrograms per liter
* = No available groundwater standard. Guidance value shown.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.
UJ = The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.

Reference:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.
NYSDEC. 2023. Division of Water Technical and Operational Guidance Series Addendum to June 1998 (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

Table 3-17
Summary of Groundwater and Surface Water Sample Results - PCBs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-1S 5-7 11/12/2024	MW-1D 19-21 11/12/2024	MW-3S 5-7 11/12/2024
PCBs (µg/l)				
Aroclor 1016	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1221	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1232	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1242	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1248	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1254	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1260	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1262	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Aroclor 1268	--	0.2 (0.19) U (U)	0.19 U	0.18 U
Total PCBs	0.09	0.2 (0.19) U (U)	0.19 U	0.18 U

Table 3-17
Summary of Groundwater and Surface Water Sample Results - PCBs
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Concentrations detected above the General Ambient Standard or Guidance Value are highlighted yellow.
Concentrations detected above the Water Class SC Fish Propogation (A(C)) or Fish Survival (A(A)) Standard or Guidance Value are highlighted orange.
Duplicate sample results are in parentheses.

Definitions:
NYSDEC = New York State Department of Environmental Conservation
PCB = polychlorinated biphenyl
TOGS 1.1.1 = Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 1998)
ug/l = micrograms per liter
--- = No regulatory criteria exists for respective analyte.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.
NYSDEC. 2023. Division of Water Technical and Operational Guidance Series Addendum to June 1998 (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

Table 3-18
Summary of Groundwater and Surface Water Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	DPT-1 15-17 10/23/2024	DPT-2 15-17 10/24/2024	MW-1S 5-7 11/12/2024	MW-1D 19-21 11/12/2024	MW-2S 5-7 11/12/2024	MW-3S 5-7 11/12/2024
PFAS (ng/l)							
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	--	4.3 U	4.3 U	**18**	6.1 U	6.2 U	6.2 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	54 U	54 U	37 U	38 U	39 U	39 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	54 U	54 U	37 U	38 U	39 U	39 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	11 U	11 U	7.5 U	7.7 U	7.8 U	7.8 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	11 U	11 U	15 U	15 U	16 U	16 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	1.1 U	**0.56 J**	1.5 U	1.5 U	1.6 U	1.6 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	11 U	11 U	15 U	15 U	16 U	16 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U
Perfluorobutanesulfonic acid (PFBS)	--	**1.0 J**	**5.7**	**1.9**	**0.70 J**	1.6 U	**0.42 J-**
Perfluorobutanoic Acid	--	**14**	**12**	**82**	**12**	**7.5**	**5.5 J**
Perfluorodecanesulfonic acid (PFDS)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluorodecanoic acid (PFDA)	--	1.1 U	**0.53 J**	**1.9**	1.5 U	**0.42 J**	**0.41 J**
Perfluorododecanesulfonic acid (PFDoS)	--	1.1 U	1.1 UJ	1.5 U	1.5 U	1.6 U	1.6 U
Perfluorododecanoic acid (PFDoA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluoroheptanesulfonic acid (PFHpS)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluoroheptanoic acid (PFHpA)	--	**8.8**	**5.4**	**30**	**5.9**	**2.1**	**3.7**
Perfluorohexanesulfonic acid (PFHxS)	--	**3.3**	**2.3**	**1.4 J**	**2.5**	1.6 U	**1.1 J**
Perfluorohexanoic acid (PFHxA)	--	**13**	**31**	**51**	**10**	**3.1**	**7.2**
Perfluorononanesulfonic Acid (PFNS)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluorononanoic acid (PFNA)	--	**1.0 J**	**0.75 J**	**8.8**	1.5 U	**1.6 J**	**1.7**
Perfluorooctane Sulfonamide (PFOSA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluorooctanesulfonic acid (PFOS)	2.7*	**4.7**	**3.2**	**18**	**2.2**	**2.8**	**3.7**
Perfluorooctanoic acid (PFOA)	6.7*	**13**	**9.9**	**27**	**12**	**3.2**	**7.5**
Perfluoropentanesulfonic Acid (PFPeS)	--	**0.66 J**	**0.56 J**	1.5 U	**0.66 J**	1.6 U	1.6 U
Perfluoropentanoic Acid (PFPeA)	--	**13**	**31**	**160**	**10**	**8.5**	**8.3**
Perfluorotetradecanoic acid (PFTeDA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U
Perfluoroundecanoic Acid (PFUnA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U

Table 3-18
Summary of Groundwater and Surface Water Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location ID Sampled Interval (Feet) Sample Date	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	DPT-1 15-17 10/23/2024	DPT-2 15-17 10/24/2024	MW-1S 5-7 11/12/2024	MW-1D 19-21 11/12/2024	MW-2S 5-7 11/12/2024	MW-3S 5-7 11/12/2024	NYSDEC TOGS 1.1.1 (CLASS SC, TYPE A(A)/A(C) SALINESURFACE WATER)	SW-1 Surface Water 10/29/2024	SW-2 Surface Water 10/29/2024	SW-3 Surface Water 10/29/2024
PFAS (ng/l)											
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	--	4.3 U	4.3 U	**18**	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	54 U	54 U	37 U	38 U	39 U	39 U	--	42 U	41 (40) U (U)	40 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	54 U	54 U	37 U	38 U	39 U	39 U	--	42 U	41 (40) U (U)	40 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	11 U	11 U	7.5 U	7.7 U	7.8 U	7.8 U	--	8.3 U	8.1 (8.1) U (U)	8.1 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	4.3 U	4.3 U	6 U	6.1 U	6.2 U	6.2 U	--	6.7 U	6.5 (6.5) U (U)	6.5 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	**1.7** U	1.6 (1.6) U (U)	1.6 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	11 U	11 U	15 U	15 U	16 U	16 U	--	17 U	16 (16) U (U)	16 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	1.1 U	**0.56 J**	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	11 U	11 U	15 U	15 U	16 U	16 U	--	17 U	16 (16) U (U)	16 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U	--	3.3 U	3.2 (3.2) U (U)	3.2 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U	--	3.3 U	3.2 (3.2) U (U)	3.2 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U	--	3.3 U	3.2 (3.2) U (U)	3.2 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	2.2 U	2.2 U	3 U	3.1 U	3.1 U	3.1 U	--	3.3 U	3.2 (3.2) U (U)	3.2 U
Perfluorobutanesulfonic acid (PFBS)	--	**1.0 J**	**5.7**	**1.9**	**0.70 J**	1.6 U	**0.42 J-**	--	**2.6**	**2.6 (2.7)**	**0.54 J**
Perfluorobutanoic Acid	--	**14**	**12**	**82**	**12**	**7.5**	**5.5 J**	--	**14**	**12 (11)**	**7.2**
Perfluorodecanesulfonic acid (PFDS)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluorodecanoic acid (PFDA)	--	1.1 U	**0.53 J**	**1.9**	1.5 U	**0.42 J**	**0.41 J**	--	**1.1 J**	**1.7 (1.1) J (J)**	1.6 U
Perfluorododecanesulfonic acid (PFDoS)	--	1.1 U	1.1 UJ	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluorododecanoic acid (PFDoA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluoroheptanesulfonic acid (PFHpS)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluoroheptanoic acid (PFHpA)	--	**8.8**	**5.4**	**30**	**5.9**	**2.1**	**3.7**	--	**9.9**	**9.2 (9.3)**	**2.2**
Perfluorohexanesulfonic acid (PFHxS)	--	**3.3**	**2.3**	**1.4 J**	**2.5**	1.6 U	**1.1 J**	--	**3.3**	**3.1 (2.5)**	**0.65 J**
Perfluorohexanoic acid (PFHxA)	--	**13**	**31**	**51**	**10**	**3.1**	**7.2**	--	**13**	**12 (12)**	**3.2**
Perfluorononanesulfonic Acid (PFNS)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluorononanoic acid (PFNA)	--	**1.0 J**	**0.75 J**	**8.8**	1.5 U	**1.6 J**	**1.7**	--	**4.3**	**4.5 (3.5)**	**0.88 J**
Perfluorooctane Sulfonamide (PFOSA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluorooctanesulfonic acid (PFOS)	2.7*	**4.7**	**3.2**	**18**	**2.2**	**2.8**	**3.7**	41000*	**8.1**	**13 (7.5) J (J)**	**1.4 J**
Perfluorooctanoic acid (PFOA)	6.7*	**13**	**9.9**	**27**	**12**	**3.2**	**7.5**	--	**22**	**19 (19)**	**4.1**
Perfluoropentanesulfonic Acid (PFPeS)	--	**0.66 J**	**0.56 J**	1.5 U	**0.66 J**	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluoropentanoic Acid (PFPeA)	--	**13**	**31**	**160**	**10**	**8.5**	**8.3**	--	**16**	**14 (14)**	**3.8**
Perfluorotetradecanoic acid (PFTeDA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U
Perfluoroundecanoic Acid (PFUnA)	--	1.1 U	1.1 U	1.5 U	1.5 U	1.6 U	1.6 U	--	1.7 U	1.6 (1.6) U (U)	1.6 U

Table 3-18
Summary of Groundwater and Surface Water Sample Results - PFAS
Former Commander Oil Terminal - Off-Site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Concentrations detected above the General Ambient Standard or Guidance Value are highlighted yellow.
Concentrations detected above the Water Class SC Fish Propogation (A(C)) or Fish Survival (A(A)) Standard or Guidance Value are highlighted orange.
Duplicate sample results are in parentheses.

Definitions:
NYSDEC = New York State Department of Environmental Conservation
PFAS = per- and polyfluoroalkyl substances
TOGS 1.1.1 = Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (NYSDEC 1998)
ng/l = nanograms per liter
--- = No regulatory criteria exists for respective analyte.
* = No available groundwater standard. Guidance value shown.
J = The concentration is an approximate value.
U = The compound was analyzed for but not detected. The associated value is the reporting limit.

Reference:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.
NYSDEC. 2023. Division of Water Technical and Operational Guidance Series Addendum to June 1998 (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.

Table 3-19
Summary of Soil Vapor Sample Results
Former Commander Oil Terminal - Off-site Site Characterization
NYSDEC Site No. C130244A
Oyster Bay, New York

Location	Ambient Air		SG-1		SG-2	
Sample Date	11/12/2024		11/12/2024		11/12/2024	
VOCs (µg/m3)						
1,1,1-Trichloroethane	0.109	U	**0.104** (0.136)	**J** (U)	0.109	U
1,1,2,2-Tetrachloroethane	0.137	U	0.137 **(0.137)**	U	0.137	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.437**		**0.452** (0.422)	(U)	**0.406**	
1,1,2-Trichloroethane	0.109	U	0.109 **(0.109)**	U **(J-)**	0.109	U
1,1-Dichloroethane	0.081	U	**1.36** (1.33)	**J-** (U)	0.081	UJ
1,1-Dichloroethene	0.079	U	0.079 (0.079)	U (UJ)	0.079	U
1,2,4-Trichlorobenzene	0.371	U	0.371 **(0.371)**	UJ	0.371	UJ
1,2,4-Trimethylbenzene	**1.36**		**1.11 (**1.44)	(U)	**1.38**	
1,2-Dibromoethane	0.154	U	0.154 **(0.154)**	U **(J)**	**0.077**	**J**
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	**0.105**	**J**	**0.112** (0.105)	**J** (UJ)	**0.098**	**J**
1,2-Dichlorobenzene	0.12	U	0.12 (0.12)	UJ (U)	0.12	UJ
1,2-Dichloroethane	**0.053**	J	0.081 (0.081)	U (U)	0.081	U
1,2-Dichloropropane	0.092	U	0.092 **(0.092)**	U (J)	0.092	U
1,3,5-Trimethylbenzene	**0.079**	**J**	**0.074** (0.049)	**J** (U)	**0.054**	**J**
1,3-Dichlorobenzene	0.12	U	0.12 **(0.12)**	U	0.12	U
1,4-Dichlorobenzene	**0.421**		0.379 **(0.355)**	(U)	**0.349**	
1,4-Dioxane	0.36	U	0.36 (0.36)	U (U)	0.36	U
2,2,4-Trimethylpentane	**0.757**	**J**	**0.355** (0.934)	**J** (UJ)	0.934	U
2-Butanone	1.47	U	**4.72** (0.59)	**J-** (U)	**0.525**	UJ
4-Methyl-2-Pentanone	2.05	U	2.05 **(2.05)**	U **(J)**	2.05	U
Benzene	**0.323**		**0.224** (0.204)	**J** (U)	**0.15**	**J**
Benzyl Chloride	0.518	U	0.518 (0.518)	U (U)	0.518	U
Bromodichloromethane	0.134	U	0.134 (0.134)	U (U)	0.134	U
Bromoform	0.207	U	0.207 (0.207)	U (U)	0.207	U
Bromomethane	0.078	U	0.078 **(0.078)**	U	0.078	U
Carbon Tetrachloride	**0.472**		**0.289** (0.289)	(UJ)	**0.302**	
Chlorobenzene	0.461	U	0.461 (0.461)	UJ (UJ)	0.461	UJ
Chloroethane	0.264	U	0.264 **(0.264)**	UJ	0.264	UJ
Chloroform	**0.068**	**J**	**1.11 (1.05)**		**1.05**	
Chloromethane	**0.878**		**0.525 (0.498)**		0.413	U
cis-1,2-Dichloroethene	0.079	U	**361** (324)	(U)	**7.06**	
cis-1,3-Dichloropropene	0.091	U	0.091 **(0.091)**	U **(J)**	0.091	U
Cyclohexane	**0.317**	**J**	**0.386** (0.317)	**J** (U)	**0.389**	**J**
Dibromochloromethane	0.17	U	0.17 **(0.17)**	U	0.17	U
Dichlorodifluoromethane	**1.94**		**2.02** (1.81)	(U)	**1.8**	
Ethyl Alcohol	9.42	U	**3.05 (9.42)**	**J (J-)**	**2.77**	**J**
Ethylbenzene	**0.439**		**0.313 (0.291)**	**J-**	**0.274**	**J-**
Heptane	**1.63**		**1.47 (1.23)**	(U)	**1.55**	
Hexachlorobutadiene	0.533	U	0.533 (0.533)	U (U)	0.533	U
Methyl Tert Butyl Ether	0.721	U	0.721 (0.721)	U (U)	0.721	U
Methylene Chloride	**0.552**	**J**	**0.386** (1.74)	**J**	1.74	U
Naphthalene	**0.923**		**0.792** (0.645)	(U)	**0.739**	
n-Hexane	**0.536**	**J**	**0.444 (0.705)**	**J**	0.705	U
o-Xylene	**0.617**		**0.447 (0.439)**		**0.421**	
p/m-Xylene	**1.69**		**1.16 (1.1)**	**(J)**	**1.01**	
Styrene	**0.102**		**0.081 (0.077)**	**J (J)**	**0.098**	
tert-Butyl Alcohol	**0.603**	**J**	**7.55 (0.421)**	**(J-)**	**0.597**	**J**
Tetrachloroethene	**0.292**		**0.488 (0.414)**	**J- (J-)**	**0.515**	**J-**
Toluene	**1.33**		**0.829 (0.765)**	**J- (J-)**	**0.98**	**J-**
trans-1,2-Dichloroethene	0.079	U	**9.44** (8.84)	**J-** (U)	**0.214**	**J-**
trans-1,3-Dichloropropene	0.091	U	0.091 **(0.091)**	U	0.091	U
Trichloroethene	0.107	U	**97.8 (94.6)**		**63.4**	
Trichlorofluoromethane	**0.955**		**0.983 (0.899)**	**(J-)**	**0.888**	
Vinyl Chloride	0.051	U	**0.202 (0.197)**	**J-**	**0.077**	**J-**

Notes:
Concentrations detected above the laboratory reporting limit are in bold.
Duplicate sample results are in parentheses.

Definitions:
µg/m3 - micrograms per cubic meter.
VOC = volatile organic compound
J - The concentration is an approximate value.
J- - The concentration is an approximate value, biased low.
U - The compound was analyzed for but not detected. The associated value is the reporting limit.
UJ - The compound was analyzed for but not detected. The sample quantitation limit is an estimated quantity.

Figures

0 100 200 300

GRAPHIC SCALE IN FEET

LEGEND

- Soil Boring
- Sediment/Surface Water Location
- Soil Gas Point
- Monitoring Well
- Site Fence

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 4/11/2025

N

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE SC
SITE NO C130244A

SITE MAP

ARCADIS

FIGURE
1-1

Path: T:_ENV\NYSDEC\Commander Oil\CommanderOil\CommanderOil.aprx\SiteLayout Last Saved By: Giroux 4/11/2025
Layout: SiteLayout

0 25 50 75 100

GRAPHIC SCALE IN FEET

LEGEND

- Monitoring Well
- Site Fence
- Potentiometric Contour (in feet above mean sea level)
- MW-1S 4.07 Groundwater Elevation (in feet above mean sea level)

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 4/11/2025

N

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE SC
SITE NO C130244A

SHALLOW GROUNDWATER POTENTIOMETRIC MAP (NOVEMBER 11, 2024)

ARCADIS

FIGURE
4-1

Path: T:_ENV\NYSDEC\Commander Oil\CommanderOil\CommanderOil.aprx\Shallow_GW Last Saved By: Giroux 4/11/2025
Layout: Shallow_GW

0 25 50 75 100

GRAPHIC SCALE IN FEET

LEGEND

- Monitoring Well
- Site Fence
- Potentiometric Contour (in feet above mean sea level)
- MW-1D 4.43 Groundwater Elevation (in feet above mean sea level)

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 4/11/2025

N

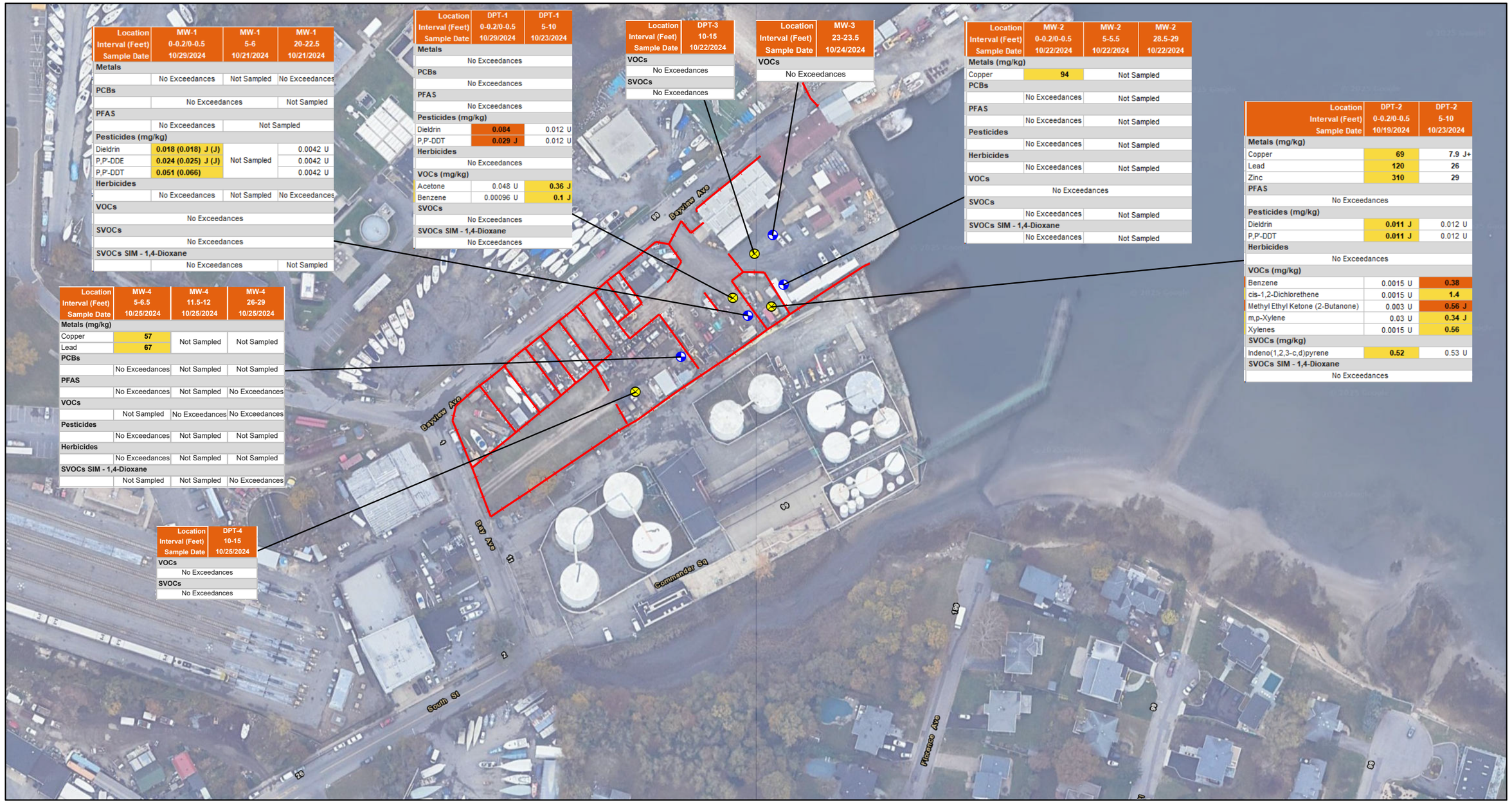
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE SC
SITE NO C130244A

DEEP GROUNDWATER POTENTIOMETRIC MAP (NOVEMBER 11, 2024)

ARCADIS

FIGURE
4-2

Path: T:_ENV\NY\SDEC\Commander Oil\CommanderOil\CommanderOil.aprx\Deep_GW Last Saved By: Giroux 4/11/2025
Layout: Deep_GW



Location	MW-1	MW-1	MW-1
Interval (Feet)	0-0.2/0-0.5	5-6	20-22.5
Sample Date	10/29/2024	10/21/2024	10/21/2024
Metals			
	No Exceedances	Not Sampled	No Exceedances
PCBs			
	No Exceedances		Not Sampled
PFAS			
	No Exceedances	Not Sampled	
Pesticides (mg/kg)			
Dieldrin	0.018 (0.018) J (J)	Not Sampled	0.0042 U
P,P'-DDE	0.024 (0.025) J (J)		0.0042 U
P,P'-DDT	0.051 (0.066)		0.0042 U
Herbicides			
	No Exceedances	Not Sampled	No Exceedances
VOCs			
	No Exceedances		
SVOCs			
	No Exceedances		
SVOCs SIM - 1,4-Dioxane			
	No Exceedances		Not Sampled

Location	DPT-1	DPT-1
Interval (Feet)	0-0.2/0-0.5	5-10
Sample Date	10/29/2024	10/23/2024
Metals		
	No Exceedances	
PCBs		
	No Exceedances	
PFAS		
	No Exceedances	
Pesticides (mg/kg)		
Dieldrin	0.084	0.012 U
P,P'-DDT	0.029 J	0.012 U
Herbicides		
	No Exceedances	
VOCs (mg/kg)		
Acetone	0.048 U	0.36 J
Benzene	0.00096 U	0.1 J
SVOCs		
	No Exceedances	
SVOCs SIM - 1,4-Dioxane		
	No Exceedances	

Location	DPT-3
Interval (Feet)	10-15
Sample Date	10/22/2024
VOCs	
	No Exceedances
SVOCs	
	No Exceedances

Location	MW-3
Interval (Feet)	23-23.5
Sample Date	10/24/2024
VOCs	
	No Exceedances

Location	MW-2	MW-2	MW-2
Interval (Feet)	0-0.2/0-0.5	5-5.5	28.5-29
Sample Date	10/22/2024	10/22/2024	10/22/2024
Metals (mg/kg)			
Copper	94	Not Sampled	
PCBs			
	No Exceedances	Not Sampled	
PFAS			
	No Exceedances	Not Sampled	
Pesticides			
	No Exceedances	Not Sampled	
Herbicides			
	No Exceedances	Not Sampled	
VOCs			
	No Exceedances		
SVOCs			
	No Exceedances	Not Sampled	
SVOCs SIM - 1,4-Dioxane			
	No Exceedances	Not Sampled	

Location	DPT-2	DPT-2
Interval (Feet)	0-0.2/0-0.5	5-10
Sample Date	10/19/2024	10/23/2024
Metals (mg/kg)		
Copper	69	7.9 J+
Lead	120	26
Zinc	310	29
PFAS		
	No Exceedances	
Pesticides (mg/kg)		
Dieldrin	0.011 J	0.012 U
P,P'-DDT	0.011 J	0.012 U
Herbicides		
	No Exceedances	
VOCs (mg/kg)		
Benzene	0.0015 U	0.38
cis-1,2-Dichlorethene	0.0015 U	1.4
Methyl Ethyl Ketone (2-Butanone)	0.003 U	0.56 J
m,p-Xylene	0.03 U	0.34 J
Xylenes	0.0015 U	0.56
SVOCs (mg/kg)		
Indeno(1,2,3-c,d)pyrene	0.52	0.53 U
SVOCs SIM - 1,4-Dioxane		
	No Exceedances	

Location	MW-4	MW-4	MW-4
Interval (Feet)	5-6.5	11.5-12	26-29
Sample Date	10/25/2024	10/25/2024	10/25/2024
Metals (mg/kg)			
Copper	57	Not Sampled	Not Sampled
Lead	67		
PCBs			
	No Exceedances	Not Sampled	Not Sampled
PFAS			
	No Exceedances	Not Sampled	No Exceedances
VOCs			
	Not Sampled	No Exceedances	No Exceedances
Pesticides			
	No Exceedances	Not Sampled	Not Sampled
Herbicides			
	No Exceedances	Not Sampled	Not Sampled
SVOCs SIM - 1,4-Dioxane			
	Not Sampled	Not Sampled	No Exceedances

Location	DPT-4
Interval (Feet)	10-15
Sample Date	10/25/2024
VOCs	
	No Exceedances
SVOCs	
	No Exceedances

0 150 300 450

GRAPHIC SCALE IN FEET

LEGEND

- Soil Boring
- Monitoring Well
- Site Fence

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 7/10/2025
3. U - ANALYTE NOT DETECTED. REPORTING LIMIT IS SHOWN.
4. MG/KG - MILLIGRAMS PER KILOGRAM

- EXCEEDS THE RESPECTIVE 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVE (SCO)
- EXCEEDS THE RESPECTIVE 6 NYCRR PART 375 PROTECTION OF GROUNDWATER SCO

THERE WERE NO EXCEEDANCES FOR COMMERCIAL OR INDUSTRIAL USE SCOS

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE SC
SITE NO C130244A

EXCEEDANCES IN SOIL

ARCADIS

FIGURE
5-1

Path: T:_ENV\NYSDEC\Commander Oil\CommanderOil\CommanderOil.aprx\Soil_Hitbox Last Saved By: Giroux 7/10/2025
Layout: Soil_Hitbox

Location	SDMT-1	SDMT-1
Interval (Feet)	0.5-1	1-2
Sample Date	10/29/2024	10/29/2024
Metals (mg/kg)		
Copper	38	57
Lead	57	270
Mercury	0.11	0.37
PCBs (mg/kg)		
Total PCBs	0.12 U	0.39
PFAS		
No Exceedances		
Pesticides		
No Exceedances		
Herbicides		
No Exceedances		
VOCs		
Ethylbenzene	0.093 U	0.41
m,p-Xylene	0.029 J	0.23
Xylenes	0.093 U	0.23
SVOCs (mg/kg)		
Total PAHs	3.422	7.76
SVOCs SIM - 1,4-Dioxane		
No Exceedances		

Location	SDMT-2	SDMT-2
Interval (Feet)	0.5-1	1-2
Sample Date	10/29/2024	10/29/2024
Metals (mg/kg)		
Lead	26	84
PCBs		
No Exceedances		
PFAS		
No Exceedances		
Pesticides (mg/kg)		
No Exceedances		
Herbicides		
No Exceedances		
VOCs		
No Exceedances		
SVOCs		
Total PAHs	1.399	4.69
SVOCs SIM - 1,4-Dioxane		
No Exceedances		

Location	SDMT-3	SDMT-3
Interval (Feet)	0.5-1	1-2
Sample Date	10/29/2024	10/29/2024
Metals (mg/kg)		
Arsenic	1.9 J	14
Lead	57	27
Mercury	0.32	0.04
PCBs		
No Exceedances		
PFAS		
No Exceedances		
Pesticides		
No Exceedances		
Herbicides		
No Exceedances		
VOCs		
No Exceedances		
SVOCs		
Total PAHs	6.84	0.092
SVOCs SIM - 1,4-Dioxane		
No Exceedances		

0 150 300 450

GRAPHIC SCALE IN FEET

LEGEND

- Sediment/Surface Water Location
- Site Fence

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 7/10/2025
3. U - ANALYTE NOT DETECTED. REPORTING LIMIT IS SHOWN.
4. MG/KG - MILLIGRAMS PER KILOGRAM

- EXCEEDS THE RESPECTIVE CLASS A GUIDANCE VALUE
- EXCEEDS THE RESPECTIVE CLASS B GUIDANCE VALUE

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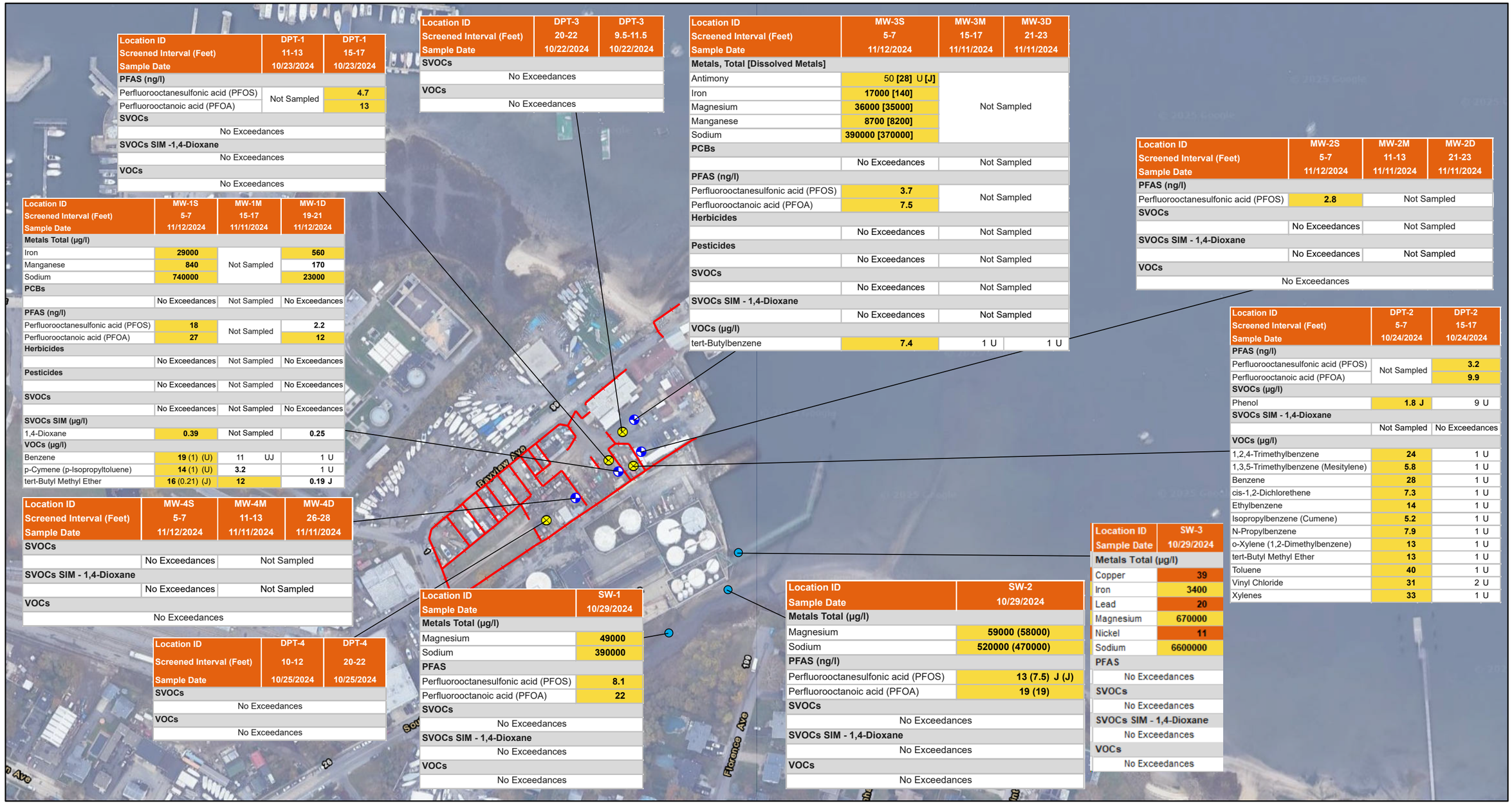
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE
SITE NO C130244A

EXCEEDANCES IN SEDIMENT

ARCADIS

FIGURE
5-2

Path: T:_ENV\NYSDEC\Commander Oil\CommanderOil\CommanderOil.aprx\Sediment_Hitbox Last Saved By: Giroux 7/10/2025
Layout: Sediment_Hitbox



Location ID	DPT-1	DPT-1
Screened Interval (Feet)	11-13	15-17
Sample Date	10/23/2024	10/23/2024
PFAS (ng/l)		
Perfluorooctanesulfonic acid (PFOS)	Not Sampled	4.7
Perfluorooctanoic acid (PFOA)		13
SVOCs		
No Exceedances		
SVOCs SIM -1,4-Dioxane		
No Exceedances		
VOCs		
No Exceedances		

Location ID	DPT-3	DPT-3
Screened Interval (Feet)	20-22	9.5-11.5
Sample Date	10/22/2024	10/22/2024
SVOCs		
No Exceedances		
VOCs		
No Exceedances		

Location ID	MW-3S	MW-3M	MW-3D
Screened Interval (Feet)	5-7	15-17	21-23
Sample Date	11/12/2024	11/11/2024	11/11/2024
Metals, Total [Dissolved Metals]			
Antimony	50 [28] U [J]	Not Sampled	
Iron	17000 [140]		
Magnesium	36000 [35000]		
Manganese	8700 [8200]		
Sodium	390000 [370000]		
PCBs			
	No Exceedances	Not Sampled	
PFAS (ng/l)			
Perfluorooctanesulfonic acid (PFOS)	3.7	Not Sampled	
Perfluorooctanoic acid (PFOA)	7.5		
Herbicides			
	No Exceedances	Not Sampled	
Pesticides			
	No Exceedances	Not Sampled	
SVOCs			
	No Exceedances	Not Sampled	
SVOCs SIM - 1,4-Dioxane			
	No Exceedances	Not Sampled	
VOCs (µg/l)			
tert-Butylbenzene	7.4	1 U	1 U

Location ID	MW-2S	MW-2M	MW-2D
Screened Interval (Feet)	5-7	11-13	21-23
Sample Date	11/12/2024	11/11/2024	11/11/2024
PFAS (ng/l)			
Perfluorooctanesulfonic acid (PFOS)	2.8	Not Sampled	
SVOCs			
	No Exceedances	Not Sampled	
SVOCs SIM - 1,4-Dioxane			
	No Exceedances	Not Sampled	
VOCs			
No Exceedances			

Location ID	MW-1S	MW-1M	MW-1D
Screened Interval (Feet)	5-7	15-17	19-21
Sample Date	11/12/2024	11/11/2024	11/12/2024
Metals Total (µg/l)			
Iron	29000	Not Sampled	560
Manganese	840		170
Sodium	740000		23000
PCBs			
	No Exceedances	Not Sampled	No Exceedances
PFAS (ng/l)			
Perfluorooctanesulfonic acid (PFOS)	18	Not Sampled	2.2
Perfluorooctanoic acid (PFOA)	27		12
Herbicides			
	No Exceedances	Not Sampled	No Exceedances
Pesticides			
	No Exceedances	Not Sampled	No Exceedances
SVOCs			
	No Exceedances	Not Sampled	No Exceedances
SVOCs SIM (µg/l)			
1,4-Dioxane	0.39	Not Sampled	0.25
VOCs (µg/l)			
Benzene	19 (1) (U)	11 UJ	1 U
p-Cymene (p-Isopropyltoluene)	14 (1) (U)	3.2	1 U
tert-Butyl Methyl Ether	16 (0.21) (J)	12	0.19 J

Location ID	DPT-2	DPT-2
Screened Interval (Feet)	5-7	15-17
Sample Date	10/24/2024	10/24/2024
PFAS (ng/l)		
Perfluorooctanesulfonic acid (PFOS)	Not Sampled	3.2
Perfluorooctanoic acid (PFOA)		9.9
SVOCs (µg/l)		
Phenol	1.8 J	9 U
SVOCs SIM - 1,4-Dioxane		
	Not Sampled	No Exceedances
VOCs (µg/l)		
1,2,4-Trimethylbenzene	24	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5.8	1 U
Benzene	28	1 U
cis-1,2-Dichlorethene	7.3	1 U
Ethylbenzene	14	1 U
Isopropylbenzene (Cumene)	5.2	1 U
N-Propylbenzene	7.9	1 U
o-Xylene (1,2-Dimethylbenzene)	13	1 U
tert-Butyl Methyl Ether	13	1 U
Toluene	40	1 U
Vinyl Chloride	31	2 U
Xylenes	33	1 U

Location ID	MW-4S	MW-4M	MW-4D
Screened Interval (Feet)	5-7	11-13	26-28
Sample Date	11/12/2024	11/11/2024	11/11/2024
SVOCs			
	No Exceedances	Not Sampled	
SVOCs SIM - 1,4-Dioxane			
	No Exceedances	Not Sampled	
VOCs			
No Exceedances			

Location ID	DPT-4	DPT-4
Screened Interval (Feet)	10-12	20-22
Sample Date	10/25/2024	10/25/2024
SVOCs		
No Exceedances		
VOCs		
No Exceedances		

Location ID	SW-1
Sample Date	10/29/2024
Metals Total (µg/l)	
Magnesium	49000
Sodium	390000
PFAS	
Perfluorooctanesulfonic acid (PFOS)	8.1
Perfluorooctanoic acid (PFOA)	22
SVOCs	
No Exceedances	
SVOCs SIM - 1,4-Dioxane	
No Exceedances	
VOCs	
No Exceedances	

Location ID	SW-2
Sample Date	10/29/2024
Metals Total (µg/l)	
Magnesium	59000 (58000)
Sodium	520000 (470000)
PFAS (ng/l)	
Perfluorooctanesulfonic acid (PFOS)	13 (7.5) J (J)
Perfluorooctanoic acid (PFOA)	19 (19)
SVOCs	
No Exceedances	
SVOCs SIM - 1,4-Dioxane	
No Exceedances	
VOCs	
No Exceedances	

Location ID	SW-3
Sample Date	10/29/2024
Metals Total (µg/l)	
Copper	39
Iron	3400
Lead	20
Magnesium	670000
Nickel	11
Sodium	6600000
PFAS	
No Exceedances	
SVOCs	
No Exceedances	
SVOCs SIM - 1,4-Dioxane	
No Exceedances	
VOCs	
No Exceedances	

0 250 500 750

GRAPHIC SCALE IN FEET

LEGEND

- Soil Boring
- Sediment/Surface Water Location
- Monitoring Well
- Site Fence

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 7/10/2025
3. NG/L - NANOGRAMS PER LITER
4. UG/L - MICROGRAMS PER LITER
5. YELLOW-HIGHLIGHTED CONCENTRATIONS EXCEED AT LEAST ONE NYS TOGS 1.1.1 GA STANDARD FOR GROUNDWATER
6. ORANGE-HIGHLIGHTED CONCENTRATIONS DETECTED ABOVE THE WATER CLASS SC SALINE FISH PROPOGATION (A(C)) OR SALINE FISH SURVIVAL (A(A)) STANDARD OR GUIDANCE VALUE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE SC
SITE NO C130244A

EXCEEDANCES IN GROUNDWATER AND SURFACE WATER

ARCADIS

FIGURE
5-3

Path: T:_ENV\NYSDEC\Commander Oil\CommanderOil\CommanderOil.aprx\Groundwater Last Saved By: Giroux 7/10/2025
Layout: Groundwater

Location Sample Date	SG-1 11/12/2024
VOCs (µg/m3)	
1,1,1-Trichloroethane	**0.104 (0.136) J**
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.452 (0.422)**
1,1-Dichloroethane	**1.36 (1.33)**
1,2,4-Trimethylbenzene	**1.11 (1.44)**
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	**0.112 (0.105) J (J)**
1,3,5-Trimethylbenzene	**0.074 (0.049) J (J)**
1,4-Dichlorobenzene	**0.379 (0.355)**
2,2,4-Trimethylpentane	**0.355** (0.934) **J** (U)
2-Butanone	**4.72 (0.59) (J)**
Benzene	**0.224 (0.204) J (J)**
Carbon Tetrachloride	**0.289 (0.289)**
Chloroform	**1.11 (1.05)**
Chloromethane	**0.525 (0.498)**
cis-1,2-Dichloroethene	**361 (324)**
Cyclohexane	**0.386 (0.317) J (J)**
Dichlorodifluoromethane	**2.02 (1.81)**
Ethyl Alcohol	**3.05** (9.42) **J** (U)
Ethylbenzene	**0.313 (0.291)**
Heptane	**1.47 (1.23)**
Methylene Chloride	**0.386** (1.74) **J** (U)
Naphthalene	**0.792 (0.645)**
n-Hexane	**0.444** (0.705) **J** (U)
o-Xylene	**0.447 (0.439)**
p/m-Xylene	**1.16 (1.1)**
Styrene	**0.081 (0.077) J (J)**
tert-Butyl Alcohol	**7.55 (0.421) (J)**
Tetrachloroethene	**0.488 (0.414)**
Toluene	**0.829 (0.765)**
trans-1,2-Dichloroethene	**9.44 (8.84)**
Trichloroethene	**97.8 (94.6)**
Trichlorofluoromethane	**0.983 (0.899)**
Vinyl Chloride	**0.202 (0.197)**

Location Sample Date	Ambient Air 11/12/2024
VOCs (µg/m3)	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.437**
1,2,4-Trimethylbenzene	**1.36**
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	**0.105 J**
1,2-Dichloroethane	**0.053 J**
1,3,5-Trimethylbenzene	**0.079 J**
1,4-Dichlorobenzene	**0.421**
2,2,4-Trimethylpentane	**0.757 J**
Benzene	**0.323**
Carbon Tetrachloride	**0.472**
Chloroform	**0.068 J**
Chloromethane	**0.878**
Cyclohexane	**0.317 J**
Dichlorodifluoromethane	**1.94**
Ethylbenzene	**0.439**
Heptane	**1.63**
Methylene Chloride	**0.552 J**
Naphthalene	**0.923**
n-Hexane	**0.536 J**
o-Xylene	**0.617**
p/m-Xylene	**1.69**
Styrene	**0.102**
tert-Butyl Alcohol	**0.603 J**
Tetrachloroethene	**0.292**
Toluene	**1.33**
Trichlorofluoromethane	**0.955**

Location Sample Date	SG-2 11/12/2024
VOCs (µg/m3)	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.406**
1,2,4-Trimethylbenzene	**1.38**
1,2-Dibromoethane	**0.077 J**
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	**0.098 J**
1,3,5-Trimethylbenzene	**0.054 J**
1,4-Dichlorobenzene	**0.349**
2-Butanone	**0.525 J**
Benzene	**0.15 J**
Carbon Tetrachloride	**0.302**
Chloroform	**1.05**
cis-1,2-Dichloroethene	**7.06**
Cyclohexane	**0.389 J**
Dichlorodifluoromethane	**1.8**
Ethyl Alcohol	**2.77 J**
Ethylbenzene	**0.274**
Heptane	**1.55**
Naphthalene	**0.739**
o-Xylene	**0.421**
p/m-Xylene	**1.01**
Styrene	**0.098**
tert-Butyl Alcohol	**0.597 J**
Tetrachloroethene	**0.515**
Toluene	**0.98**
trans-1,2-Dichloroethene	**0.214**
Trichloroethene	**63.4**
Trichlorofluoromethane	**0.888**
Vinyl Chloride	**0.077**

LEGEND

- Soil Gas Point
- Ambient Air Sample Location
- Site Fence

0 100 200 300

GRAPHIC SCALE IN FEET

NOTES:

1. PROJECTION: NAD 1983 STATEPLANE NEW YORK LONG ISLAND FIPS 3104 FEET
2. BASEMAP SOURCE: [GOOGLE SATELLITE], ACCESSED 7/10/2025
3. UG/M3 - MICROGRAMS PER CUBIC METER
4. RESULTS IN PARENTHESES DENOTE A DUPLICATE SAMPLE COLLECTED AT THAT LOCATION.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
2 BAYVIEW AVE., OYSTER BAY, NEW YORK
FORMER COMMANDER OIL TERMINAL OFF-SITE SC
SITE NO C130244A

SOIL VAPOR SAMPLING RESULTS

ARCADIS

FIGURE
5-4

Path: T:_ENV\NYSDEC\Commander Oil\CommanderOil\CommanderOil.aprx\Soil_Vapor Last Saved By: Giroux 7/10/2025
Layout: Soil_Vapor

Appendix A

Data Usability Summary Reports

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Soil
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, ICP Metals (6010D), Mercury(7470A), Cyanide (9014), Pesticides Method 8081B, PCBs 8082A, Herbicides 8151A
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24J3305
SAMPLING DATE(S):	October 21, 2024

SAMPLES:

Client Sample ID	Laboratory ID	VOC	SVOC	1,4-DIOXANE
MW-1(5-6)102124	24J3305-01	X	X	X
MW-1(20-22.5)102124	24J3305-02	X	X	
MW-1(5-6)102124MS	24J3305-01MS	X	X	X
MW-1(5-6)102124MSD	24J3305-01MSD		X	
MW-1(20-22.5)102124MS	24J3305-02MS			
MW-1(20-22.5)102124MSD	24J3305-02MSD			

Client Sample ID	Laboratory ID	PESTICIDES	PCBS	HERBICIDES
MW-1(5-6)102124	24J3305-01		X	
MW-1(20-22.5)102124	24J3305-02	X	X	X
MW-1(20-22.5)102124MS	24J3305-02MS	X		
MW-1(20-22.5)102124MSD	24J3305-02MSD	X		

Client Sample ID	Laboratory ID	METALS	MERCURY	CYANIDE
MW-1(5-6)102124	24J3305-01			X
MW-1(20-22.5)102124	24J3305-02	X	X	X
MW-1(5-6)102124MS	24J3305-01MS			X
MW-1(5-6)102124MSD	24J3305-01MSD			X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24J3305

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The following outliers were identified for the CCV analyzed 10/24/2024 at 04:16 am.

Analyte	%Difference	QC Limit
Chloromethane	20.7%	20%
Dichlorodifluoromethane	26.6%	20%
Ethanol	36.1%	20%

Results for these analytes were flagged as estimated (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There as one Laboratory Control Sample analyzed as part of this SDG. The following outliers were identified.

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Chloromethane	62.20%	56.60%	70-130%
Carbon Disulfide		69.60%	70-130%
Chloroethane		66.10%	70-130%

These analytes were flagged as estimated for the affected samples; positive results (J+) and negative results (UJ)

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analysis performed as part of this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with some exceptions which resulted in the rejection of data (see sections VIII and IX.).

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met with the following exceptions.

The CCV analyzed 10/24/2024 at 9:51am had the following outliers

Analyte	% Difference	QC Limit
4,6-Dinitro-2-methylphenol	20.5%	20%
2,4-Dinitrophenol	22.6%	20%

The CCV analyzed 10/24/2024 at 10:14am had the following outlier

Analyte	% Difference	QC Limit
Benzaldehyde	36.3%	20%
2,3,4,6-Tetrachlorophenol	50.6%	20%

These analytes were flagged as estimated (UJ) in the affected samples.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. The following outliers were identified.

Analyte	LCS	LCSD	QC Limits
3,3'-Dichlorobenzidine	18.3%	18.8%	20-140%
Pyridine	18.5%	19.0%	30-130%

Results for these analytes were flagged as rejected for the affected samples (X)

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample MW-1(5-6)102124 was used as the MS/MSD for the soil samples. The following outliers were identified.

Analyte	MS% Recovery	MSD% Recovery	QC Limits
Aniline	34.6%	38.1%	40-140%
4-chloroaniline	28.9%	31.0%	40-140%
Chrysene	39.9%		40-140%
3,3'-Dichlorobenzidine	15.0%	16.4%	40-140%
Hexachlorocyclopentadiene	0.0%	0.0%	30-140%
3-Nitroaniline	34.6%	34.7%	40-140%
Pyridine	15.7%	14.4%	40-140%
2,4-Dinitrophenol		28.3%	30-140%
2-Methylnaphthalene		39.6%	40-140%

These analytes were flagged as estimated for the affected sample; positive results (J-) and negative results (UJ). Analytes that recovered below 10% were flagged as rejected (X)

X.) Field Duplicates:

There were no field duplicates analyzed as part of this fraction of the SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. The LCSD had a percent recovery(167%) that was above QC Limits. The analyte was not detected in any affected samples. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

PESTICIDES

SUMMARY

I.) General:

The analyses for Pesticides were performed by GC according to SW 846 Method 8081B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Sample MW-1(20-22)102124 was analyzed as the batch MS/MSD. All analytes recovered within QC Limits. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates analyzed in this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

PCBs

SUMMARY

I.) General:

The analyses for PCBs were performed by GC according to SW 846 Method 8082A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

HERBICIDES

SUMMARY

I.) General:

The analyses for herbicides were performed by GC according to SW 846 Method 8151.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

METALS

SUMMARY

I.) General:

The analyses for Metals were performed by Inductively Coupled Plasma (ICP) according to SW-846 Method 6010B

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no detections in the blanks associated with the samples for this SDG. No action was required

IV.) ICP Interference Check Sample Results:

All Interference Percent Recovery criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

Serial Dilution analysis was performed on sample MW-1. All Serial Dilution Analysis criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No action was required.

VIII.) Post Digestion Spike:

There was no Post Digestion Spike analyzed with this SDG. No action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

MERCURY

SUMMARY

I.) General:

The analyses for Mercury were performed according to SW-846 Method 7470A

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no target analytes detected in any blanks. No further action was required.

V.) Serial Dilution Analysis:

There was no serial dilution analysis performed for this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No further action was required.

VIII.) Post Digestion Spike:

There was no post digestion spike analyzed with this SDG. No further action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

CYANIDE

SUMMARY

I.) General:

The analyses for Cyanide were performed per Method 9014.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification with some exceptions.

MAJOR ISSUES

There were a major problem for this fraction of the SDG which resulted in the rejection of data (see section I).

MINOR ISSUES

I.) Holding Times:

Samples were analyzed after the 14 day holding time. Results were flagged as rejected (X).

II.) Calibration:

All calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There was no detection reported in the associated method blank. No data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Sample MW-1(5-6)102124 was analyzed as the batch MS/MSD. All recovery criteria was met. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Lab Duplicates:

There were no lab duplicates analyzed for this fraction of the SDG. No data qualification was necessary.

Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	0.044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Benzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromochloromethane	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromodichloromethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromoform	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromomethane	ND	0.0085	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
2-Butanone (MEK)	ND	0.034	0.0072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Butyl Alcohol (TBA)	ND	0.085	0.035	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
n-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
sec-Butylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Carbon Disulfide	ND	0.017	0.0085	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Carbon Tetrachloride	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chlorobenzene	ND	0.0017	0.00041	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chlorodibromomethane	ND	0.00085	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chloroform	ND	0.0034	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chloromethane	ND	0.0085	0.0010	mg/Kg dry	1	V-05, L-04 UJ	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Cyclohexane	ND	0.0085	0.0035	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0034	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00074	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1-Dichloroethane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dichloroethane	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1-Dichloroethylene	ND	0.0034	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
cis-1,2-Dichloroethylene	0.0022	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dichloropropane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
cis-1,3-Dichloropropene	ND	0.00085	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
trans-1,3-Dichloropropene	ND	0.00085	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Ethanol	ND	0.17	0.034	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Ethylbenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
2-Hexanone (MBK)	ND	0.017	0.0058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
p-Isopropyltoluene (p-Cymene)	0.012	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Methyl Cyclohexane	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Methylene Chloride	ND	0.017	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Naphthalene	ND	0.0034	0.00084	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
n-Propylbenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Styrene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.00085	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Tetrachloroethylene	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Toluene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Trichloroethylene	ND	0.0017	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0085	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00082	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Vinyl Chloride	0.0014	0.0085	0.00066	mg/Kg dry	1	J	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
o-Xylene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/24/24 8:09
Toluene-d8	98.5	70-130		10/24/24 8:09
4-Bromofluorobenzene	97.9	70-130		10/24/24 8:09

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Atrazine	ND	0.77	0.050	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Biphenyl	ND	0.77	0.050	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Caprolactam	ND	0.39	0.068	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Acenaphthene	ND	0.20	0.037	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Acenaphthylene	ND	0.20	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Aniline	ND	0.39	0.068	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Anthracene	ND	0.20	0.034	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(a)anthracene	ND	0.20	0.032	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(a)pyrene	ND	0.20	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(b)fluoranthene	ND	0.20	0.032	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(g,h,i)perylene	ND	0.20	0.056	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(k)fluoranthene	ND	0.20	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.056	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Butylbenzylphthalate	ND	0.39	0.044	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Carbazole	ND	0.20	0.040	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Chrysene	ND	0.20	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Dibenz(a,h)anthracene	ND	0.20	0.054	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
3,3-Dichlorobenzidine	ND	0.20	0.084	mg/Kg dry	1	L-04	X	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dimethylphenol	ND	0.39	0.090	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dinitrotoluene	ND	0.39	0.040	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Fluoranthene	ND	0.20	0.032	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Fluorene	ND	0.20	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 13:47	KMC

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

Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	X	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Isophorone	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
1-Methylnaphthalene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Methylnaphthalene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
3/4-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Naphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Nitroaniline	ND	0.39	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Nitroaniline	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Pyrene	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Pyridine	ND	0.39	0.046	mg/Kg dry	1	L-04, V-34 X	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.0	30-130		10/24/24 13:47
Phenol-d6	42.6	30-130		10/24/24 13:47
Nitrobenzene-d5	53.2	30-130		10/24/24 13:47
2-Fluorobiphenyl	48.2	30-130		10/24/24 13:47
2,4,6-Tribromophenol	50.7	30-130		10/24/24 13:47
p-Terphenyl-d14	54.9	30-130		10/24/24 13:47

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.058	0.046	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 15:34	GJB
1,4-Dioxane	ND	0.057	0.045	mg/Kg dry	1		SW-846 8270E	11/12/24	11/13/24 21:33	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	37.8	15-110		11/13/24 21:33
1,4-Dioxane-d8	64.4	15-110		11/12/24 15:34

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	0.023	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1221 [1]	ND	0.093	0.043	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1232 [1]	ND	0.093	0.023	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1242 [1]	ND	0.093	0.026	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1248 [1]	ND	0.093	0.022	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1254 [1]	ND	0.093	0.028	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1260 [1]	ND	0.093	0.019	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1262 [1]	ND	0.093	0.024	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1268 [1]	ND	0.093	0.024	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.7	30-150		10/28/24 21:38
Decachlorobiphenyl [2]	90.8	30-150		10/28/24 21:38
Tetrachloro-m-xylene [1]	101	30-150		10/28/24 21:38
Tetrachloro-m-xylene [2]	99.6	30-150		10/28/24 21:38

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0			% Wt	1			SM 2540G	10/23/24	10/23/24 10:00	MLR
Cyanide	ND	0.55	0.42	mg/Kg dry	1	H-01	X	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.082	0.043	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00082	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Benzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromochloromethane	ND	0.0016	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromodichloromethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromoform	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromomethane	ND	0.0082	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
2-Butanone (MEK)	ND	0.033	0.0069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.082	0.034	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
n-Butylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
sec-Butylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Butylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00082	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Carbon Disulfide	ND	0.016	0.0083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Carbon Tetrachloride	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chlorobenzene	ND	0.0016	0.00040	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chlorodibromomethane	ND	0.00082	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chloroform	ND	0.0033	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chloromethane	ND	0.0082	0.0010	mg/Kg dry	1	L-04, V-05 UJ	SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Cyclohexane	ND	0.0082	0.0033	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0033	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00082	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00072	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1-Dichloroethane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dichloroethane	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1-Dichloroethylene	ND	0.0033	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dichloropropane	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
cis-1,3-Dichloropropene	ND	0.00082	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
trans-1,3-Dichloropropene	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Diisopropyl Ether (DIPE)	ND	0.00082	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Ethanol	ND	0.16	0.033	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Ethylbenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
2-Hexanone (MBK)	ND	0.016	0.0056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF

SPL 2/25/2025

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

Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Methyl Cyclohexane	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Methylene Chloride	ND	0.016	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Naphthalene	ND	0.0033	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
n-Propylbenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Styrene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Tetrachloroethylene	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Toluene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Trichloroethylene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0082	0.00097	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0082	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Vinyl Chloride	ND	0.0082	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		10/24/24 8:35
Toluene-d8	100	70-130		10/24/24 8:35
4-Bromofluorobenzene	95.4	70-130		10/24/24 8:35

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.73	0.050	mg/Kg dry	1	V-05 UJ	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Atrazine	ND	0.73	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05 UJ	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Biphenyl	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Caprolactam	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Acetophenone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Aniline	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(a)anthracene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(b)fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(g,h,i)perylene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Chloroaniline	ND	0.72	0.066	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Chloro-3-methylphenol	ND	0.72	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Chloronaphthalene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Chlorophenylphenylether	ND	0.37	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Chrysene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Dibenz(a,h)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
3,3-Dichlorobenzidine	ND	0.19	0.080	mg/Kg dry	1	L-04 UJ	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Diethylphthalate	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dimethylphenol	ND	0.37	0.086	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dinitrophenol	ND	0.72	0.29	mg/Kg dry	1	V-05 UJ	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dinitrotoluene	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Di-n-octylphthalate	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Fluorene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Hexachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Isophorone	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
1-Methylnaphthalene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Methylphenol	ND	0.37	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
3/4-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Naphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Nitrobenzene	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Nitrophenol	ND	0.72	0.099	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Phenanthrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34 UJ	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.7	30-130		10/24/24 14:11
Phenol-d6	51.1	30-130		10/24/24 14:11
Nitrobenzene-d5	52.7	30-130		10/24/24 14:11
2-Fluorobiphenyl	51.2	30-130		10/24/24 14:11
2,4,6-Tribromophenol	56.3	30-130		10/24/24 14:11
p-Terphenyl-d14	55.9	30-130		10/24/24 14:11

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.0024	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
gamma-Chlordane [1]	ND	0.0052	0.0023	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Aldrin [1]	ND	0.0052	0.00051	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
alpha-BHC [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
beta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
delta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
4,4'-DDD [1]	ND	0.0042	0.00088	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
4,4'-DDE [1]	ND	0.0042	0.00046	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
4,4'-DDT [1]	ND	0.0042	0.00054	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Dieldrin [1]	ND	0.0042	0.00050	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endosulfan I [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endosulfan II [1]	ND	0.0083	0.0022	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endosulfan sulfate [1]	ND	0.0083	0.0020	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endrin [2]	ND	0.0083	0.0022	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endrin aldehyde [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 21:51	TG
Endrin ketone [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Heptachlor [1]	ND	0.0052	0.00057	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Heptachlor epoxide [1]	ND	0.0052	0.00060	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Methoxychlor [1]	ND	0.052	0.0062	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Toxaphene [1]	ND	0.10	0.043	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		11/8/24 17:44
Decachlorobiphenyl [1]	95.4	30-150		11/8/24 21:51
Decachlorobiphenyl [2]	92.8	30-150		11/8/24 17:44
Decachlorobiphenyl [2]	94.1	30-150		11/8/24 21:51
Tetrachloro-m-xylene [1]	72.1	30-150		11/8/24 21:51
Tetrachloro-m-xylene [1]	71.7	30-150		11/8/24 17:44
Tetrachloro-m-xylene [2]	74.8	30-150		11/8/24 21:51
Tetrachloro-m-xylene [2]	74.2	30-150		11/8/24 17:44

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1300	19	5.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Antimony	ND	1.9	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Arsenic	0.97	3.7	0.52	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/7/24 10:58	MJH
Barium	5.5	1.9	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Beryllium	0.12	0.19	0.056	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Cadmium	ND	0.37	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Calcium	260	19	9.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Chromium	5.1	0.74	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Cobalt	1.2	1.9	0.31	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Copper	3.1	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Iron	4100	19	8.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Lead	1.9	0.56	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Magnesium	460	19	4.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Manganese	34	0.37	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Mercury	ND	0.028	0.012	mg/Kg dry	1		SW-846 7471B	11/14/24	11/15/24 11:34	AAJ
Nickel	2.2	0.74	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Potassium	230	190	46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Selenium	ND	3.7	0.92	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 10:58	MJH
Sodium	ND	190	55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Thallium	ND	1.9	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 10:58	MJH
Vanadium	6.3	0.74	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Zinc	5.4	0.74	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH

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

Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7			% Wt	1			SM 2540G	10/23/24	10/23/24 10:00	MLR
Cyanide	ND	0.53	0.40	mg/Kg dry	1	H-01	X	SW-846 9014	11/17/24	11/18/24 10:30	DET

SPL 2/25/2025

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Pace New England	**Lab Number**	: L2461869
Project Name	: 24J3305	**Project Number**	: 24J3305
Lab ID	: L2461869-01	**Date Collected**	: 10/21/24 14:30
Client ID	: MW-1 (20-22.5) 102124	**Date Received**	: 10/23/24
Sample Location	:	**Date Analyzed**	: 10/28/24 12:07
Sample Matrix	: SOIL	**Date Extracted**	: 10/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22241028a-13	**Analyst**	: EJL
Sample Amount	: 30.51 g	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: 88
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	3710	1170	U
94-74-6	MCPA	ND	3710	1050	U
75-99-0	Dalapon	ND	37.1	12.1	U
1918-00-9	Dicamba	ND	37.1	6.23	U
120-36-5	Dichloroprop	ND	37.1	10.6	U
94-75-7	2,4-D	ND	185	11.7	U
94-82-6	2,4-DB	ND	185	9.53	U
93-76-5	2,4,5-T	ND	185	5.75	U
93-72-1	2,4,5-TP (Silvex)	ND	185	4.93	U

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(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Soil/Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, ICP Metals (6010D), Mercury(7470A), Cyanide (9014), Pesticides Method 8081B, PCBs 8082A, Herbicides 8151A, Polyfluoroalkyl Substances (PFAS) Method 1633
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24J3350
SAMPLING DATE(S):	October 22, 2024

SAMPLES:

Client Sample ID	Laboratory ID	SOIL	WATER	VOC	SVOC	1,4-DIOXANE
DPT-3(10-15)102224	24J3350-01	X		X	X	X
DPT-3(9.5-11.5)102224	24J3350-02		X	X	X	X
DPT-3(20-22)102224	24J3350-03		X	X	X	X
MW-2(SS)102224	24J3350-04	X		X	X	X
MW-2(5-5.5)102224	24J3350-05	X		X		
MW-2(28.5-29)102224	24J3350-06	X		X		
Trip Blank 102224	24J3350-07		X	X		

Client Sample ID	Laboratory ID	PFAS	PESTICIDES	PCBS	HERBICIDES
MW-2(SS)102224	24J3350-04	X	X	X	X

Client Sample ID	Laboratory ID	METALS	MERCURY	CYANIDE
MW-2(SS)102224	24J3350-04	X	X	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24J3350

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The Initial calibration Verification analyzed 10/4/2024 had the following outliers

Analyte	%Difference	QC Limit
Ethanol	78.0%	20%
Iodomethane	33.8%	20%

These analytes were flagged as estimated for the affected samples (UJ).

Continuing Calibration:

The following outliers were identified for the CCV analyzed 10/24/2024 at 04:16 am.

Analyte	%Difference	QC Limit
Chloromethane	20.7%	20%
Dichlorodifluoromethane	26.6%	20%
Ethanol	36.1%	20%

Results for these analytes were flagged as estimated (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There as one Laboratory Control Sample analyzed as part of this SDG. The following outliers were identified.

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Chloromethane	62.20%	56.60%	70-130%
Carbon Disulfide		69.60%	70-130%
Chloroethane		66.10%	70-130%

These analytes were flagged as estimated for the affected samples; positive results (J-) and negative results (UJ)

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analysis performed as part of this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The Initial calibration analyzed 9/6/2024 had a % RSD (29.4%) for 2,4-Dinitrophenol that was above the QC Limit of 15%.

The initial calibration analyzed 10/23/2024 had the following outliers.

Analyte	%RSD	QC Limit
Butylbenzylphthalate	26.6%	20%
4,6-Dinitro-2-methylphenol	34.4%	20%
2,4-Dinitrophenol	38.8%	20%
Di-n-octylphthalate	29.7%	20%

The initial calibration analyzed 10/30/2024 had the following outliers.

Analyte	%RSD	QC Limit
Dibenz(a,h)anthracene	21.3%	20%
Indeno(1,2,3-cd)pyrene	20.4%	20%
2,4-Dinitrophenol	37.1%	20%
Di-n-octylphthalate	21.9%	20%

Results for these analytes were flagged as estimated in the affected samples; positive results(J) and negative results (UJ)

Initial Calibration Verification:

All initial calibration verification were met with the following exceptions.

For the ICV analyzed 9/6/2024

Analyte	%Difference	QC Limit
Pyridine	35.7%	20%

For the ICV analyzed 10/23/2024

Analyte	%Difference	QC Limit
Pyridine	32.5%	20%
2-Nitroaniline	36.3%	20%

For the ICV analyzed 10/30/2024

Analyte	%Difference	QC Limit
Pyridine	37.0%	20%

Results for these analytes were flagged as estimated (UJ)

Continuing Calibration:

All continuing calibration criteria were met with the following exceptions.

The CCV analyzed 10/24/2024 at 9:51am had the following outliers

Analyte	% Difference	QC Limit
4,6-Dinitro-2-methylphenol	20.5%	20%
2,4-Dinitrophenol	22.6%	20%
N-Nitrosodiphenylamine	21.8%	20%

The CCV analyzed 10/24/2024 at 10:14am had the following outliers

Analyte	% Difference	QC Limit
Benzaldehyde	36.3%	20%
2,3,4,6-Tetrachlorophenol	50.6%	20%

The CCV analyzed 10/24/2024 at 7:50am had the following outliers

Analyte	% Difference	QC Limit
2,4-Dinitrotoluene	20.2%	20%
2,4-Dinitrophenol	40.2%	20%
2-Nitrophenol	20.1%	20%

The CCV analyzed 10/30/2024 at 9:51am had the following outliers

Analyte	% Difference	QC Limit
4,6-Dinitro-2-methylphenol	20.5%	20%
2,4-Dinitrophenol	22.6%	20%
N-Nitrosodiphenylamine	21.8%	20%

The CCV analyzed 10/24/2024 at 18:08pm had the following outliers

Analyte	% Difference	QC Limit
Caprolactam	20.9%	20%

The CCV analyzed 10/31/2024 at 14:04pm had the following outliers

Analyte	% Difference	QC Limit
2,4-Dinitrophenol	26.5%	20%
Aniline	28.3%	20%

These analytes were flagged as estimated (UJ) in the affected samples.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There were three Laboratory Control Sample/Duplicates analyzed as part of this SDG. The following outliers were identified.

Batch 390240

Analyte	LCS	LCSD	QC Limits
3,3'-Dichlorobenzidine	18.3%	18.8%	20-140%
Pyridine	18.5%	19.0%	30-130%

Batch 390206

Analyte	LCS	LCSD	QC Limits
Caprolactam	37.5%	37.9%	40-140%

Batch 390727

Analyte	LCS	LCSD	QC Limits
Caprolactam	37.3%	39.5%	40-140%

Results for these analytes were flagged as rejected for the affected samples (X)

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD)

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates analyzed as part of this fraction of the SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. The LCSD had a percent recovery(167%) that was above QC Limits. The analyte was not detected in any affected samples. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

PFAS

I.) General

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data

The overall assessment of data was acceptable.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) LC-MS Tuning:

All LC-MS Tuning criteria were met. All mass calibration criteria were met. No data qualification was necessary.

V.) Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VIII.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

Equipment Blanks:

There were no blanks analyzed as part of this SDG. No data qualification was necessary

IX.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria. No data qualification was necessary.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

An LLLCS, LCS, and LCSD were prepared and analyzed for the soil and water preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XII.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XIII.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XIV.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XV.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XVI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

XVII.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

PESTICIDES

SUMMARY

I.) General:

The analyses for Pesticides were performed by GC according to SW 846 Method 8081B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates analyzed in this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

PCBs

SUMMARY

I.) General:

The analyses for PCBs were performed by GC according to SW 846 Method 8082A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

HERBICIDES

SUMMARY

I.) General:

The analyses for herbicides were performed by GC according to SW 846 Method 8151.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

METALS

SUMMARY

I.) General:

The analyses for Metals were performed by Inductively Coupled Plasma (ICP) according to SW-846 Method 6010B

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no detections in the blanks associated with the samples for this SDG. No action was required

IV.) ICP Interference Check Sample Results:

All Interference Percent Recovery criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

There was no serial dilution analyzed with this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No action was required.

VIII.) Post Digestion Spike:

There was no Post Digestion Spike analyzed with this SDG. No action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

MERCURY

SUMMARY

I.) General:

The analyses for Mercury were performed according to SW-846 Method 7470A

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no target analytes detected in any blanks. No further action was required.

V.) Serial Dilution Analysis:

There was no serial dilution analysis performed for this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No further action was required.

VIII.) Post Digestion Spike:

There was no post digestion spike analyzed with this SDG. No further action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

CYANIDE

SUMMARY

I.) General:

The analyses for Cyanide were performed per Method 9014.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification with some exceptions.

MAJOR ISSUES

There was a major problem for this fraction of the SDG which resulted in the rejection of data (see section I).

MINOR ISSUES

I.) Holding Times:

Samples were analyzed after the 14 day holding time. Results were flagged as rejected (X).

II.) Calibration:

All calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There was no detection reported in the associated method blank. No data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Lab Duplicates:

There were no lab duplicates analyzed for this fraction of the SDG. No data qualification was necessary.

Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.090	0.047	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0039	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00090	0.00084	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Benzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromochloromethane	ND	0.0018	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromodichloromethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromoform	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromomethane	ND	0.0090	0.0016	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
2-Butanone (MEK)	ND	0.036	0.0076	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Butyl Alcohol (TBA)	ND	0.090	0.037	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
n-Butylbenzene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
sec-Butylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Butylbenzene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00090	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Carbon Disulfide	ND	0.018	0.0091	mg/Kg dry	1	X	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Carbon Tetrachloride	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chlorobenzene	ND	0.0018	0.00044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chlorodibromomethane	ND	0.00090	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1	X	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chloroform	ND	0.0036	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chloromethane	ND	0.0090	0.0011	mg/Kg dry	1	V-05, L-04 X	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Cyclohexane	ND	0.0090	0.0037	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0036	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dibromoethane (EDB)	ND	0.00090	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00079	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1-Dichloroethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dichloroethane	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1-Dichloroethylene	ND	0.0036	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dichloropropane	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
cis-1,3-Dichloropropene	ND	0.00090	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
trans-1,3-Dichloropropene	ND	0.00090	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Diisopropyl Ether (DIPE)	ND	0.00090	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Ethanol	ND	0.18	0.036	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Ethylbenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
2-Hexanone (MBK)	ND	0.018	0.0062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF

SPL 2/25/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Methyl Cyclohexane	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Methylene Chloride	ND	0.018	0.00085	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Naphthalene	ND	0.0036	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
n-Propylbenzene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Styrene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.00090	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Tetrachloroethylene	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Toluene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Trichloroethylene	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0090	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0090	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Vinyl Chloride	ND	0.0090	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
m+p Xylene	ND	0.0036	0.0013	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
o-Xylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/24/24 9:00
Toluene-d8	100	70-130		10/24/24 9:00
4-Bromofluorobenzene	96.0	70-130		10/24/24 9:00

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.052	mg/Kg dry	1	V-05 UJ	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Atrazine	ND	0.76	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05 UJ	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Biphenyl	ND	0.76	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Caprolactam	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Acetophenone	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Aniline	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(g,h,i)perylene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.24	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Bromophenylphenylether	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Butylbenzylphthalate	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Chloroaniline	ND	0.75	0.069	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Chloro-3-methylphenol	ND	0.75	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Dibenz(a,h)anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
3,3-Dichlorobenzidine	ND	0.19	0.084	mg/Kg dry	1	L-04 X	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Diethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dimethylphenol	ND	0.39	0.089	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Dimethylphthalate	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dinitrophenol	ND	0.75	0.30	mg/Kg dry	1	V-05 UJ	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dinitrotoluene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Fluoranthene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Fluorene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Hexachlorobenzene	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC

SPL 2/25/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Hexachlorocyclopentadiene	ND	0.39	0.25	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.063	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Isophorone	ND	0.39	0.041	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
1-Methylnaphthalene	ND	0.19	0.039	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
3/4-Methylphenol	ND	0.39	0.051	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Naphthalene	ND	0.19	0.068	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Nitroaniline	ND	0.39	0.047	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Nitroaniline	ND	0.39	0.043	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Nitrophenol	ND	0.75	0.10	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.054	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Pyridine	ND	0.39	0.045	mg/Kg dry	1	L-04, V-34	X	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.038	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4,5-Trichlorophenol	ND	0.39	0.039	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:22	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	58.5	30-130		10/24/24 15:22
Phenol-d6	53.4	30-130		10/24/24 15:22
Nitrobenzene-d5	57.0	30-130		10/24/24 15:22
2-Fluorobiphenyl	57.2	30-130		10/24/24 15:22
2,4,6-Tribromophenol	62.4	30-130		10/24/24 15:22
p-Terphenyl-d14	61.7	30-130		10/24/24 15:22

SPL 2/25/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Butyl Alcohol (TBA)	16	20	3.4	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 5:44	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.96	1.0	0.17	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Naphthalene	0.58	2.0	0.25	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 5:44	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Toluene	1.3	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.4	70-130		10/25/24 5:44
Toluene-d8	97.1	70-130		10/25/24 5:44
4-Bromofluorobenzene	96.6	70-130		10/25/24 5:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	21	5.9	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Atrazine	ND	21	1.7	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzaldehyde	ND	11	0.76	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Biphenyl	ND	21	0.97	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Caprolactam	ND	11	0.75	µg/L	1	L-04	X	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Acenaphthene	ND	5.3	0.83	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Acenaphthylene	ND	5.3	0.67	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Acetophenone	ND	11	0.53	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Aniline	ND	21	9.4	µg/L	1	V-05	UJ	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Anthracene	ND	5.3	0.57	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(a)anthracene	ND	5.3	0.40	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(a)pyrene	ND	5.3	0.46	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(b)fluoranthene	ND	5.3	0.34	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(g,h,i)perylene	ND	5.3	0.55	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(k)fluoranthene	ND	5.3	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Bis(2-chloroethoxy)methane	ND	11	0.61	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Bis(2-chloroethyl)ether	ND	11	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,2'-oxybis(1-Chloropropane)	ND	11	0.79	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	0.34	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Bromophenylphenylether	ND	11	0.75	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Butylbenzylphthalate	ND	11	0.42	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Carbazole	ND	11	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Chloroaniline	ND	11	5.5	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Chloro-3-methylphenol	ND	11	0.67	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Chloronaphthalene	ND	11	0.85	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Chlorophenol	ND	11	0.43	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Chlorophenylphenylether	ND	11	0.92	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Chrysene	ND	5.3	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Dibenz(a,h)anthracene	ND	5.3	0.50	µg/L	1	V-04	UJ	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Dibenzofuran	ND	5.3	0.90	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Di-n-butylphthalate	ND	11	0.53	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
3,3-Dichlorobenzidine	ND	11	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dichlorophenol	ND	11	0.49	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Diethylphthalate	ND	11	0.59	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dimethylphenol	ND	11	0.43	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Dimethylphthalate	ND	11	0.46	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4,6-Dinitro-2-methylphenol	ND	21	2.4	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dinitrophenol	ND	11	1.4	µg/L	1	V-04, V-05	UJ	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dinitrotoluene	ND	11	0.37	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,6-Dinitrotoluene	ND	11	0.58	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Di-n-octylphthalate	ND	11	0.34	µg/L	1	V-04	UJ	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Fluoranthene	0.92	5.3	0.59	µg/L	1	J		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Fluorene	ND	5.3	0.80	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Hexachlorobenzene	ND	11	0.76	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL

SPL 2/25/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	11	1.3	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Hexachlorocyclopentadiene	ND	11	3.0	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Hexachloroethane	ND	11	1.3	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Indeno(1,2,3-cd)pyrene	ND	5.3	0.50	µg/L	1	V-04	UJ	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Isophorone	ND	11	0.57	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
1-Methylnaphthalene	ND	5.3	1.0	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Methylnaphthalene	ND	5.3	0.98	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Methylphenol	ND	11	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
3/4-Methylphenol	ND	11	0.51	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Naphthalene	ND	5.3	0.95	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Nitroaniline	ND	11	0.52	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
3-Nitroaniline	ND	11	0.54	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Nitroaniline	ND	11	0.46	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Nitrobenzene	ND	11	0.71	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Nitrophenol	ND	11	0.57	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Nitrophenol	ND	11	1.4	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	11	0.51	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
N-Nitrosodi-n-propylamine	ND	11	0.69	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Pentachlorophenol	ND	11	0.51	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Phenanthrene	2.5	5.3	0.75	µg/L	1	J		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Phenol	ND	11	0.62	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Pyrene	0.66	5.3	0.48	µg/L	1	J		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Pyridine	ND	21	5.4	µg/L	1	V-34	UJ	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
1,2,4,5-Tetrachlorobenzene	ND	11	1.3	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4,5-Trichlorophenol	ND	11	0.48	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4,6-Trichlorophenol	ND	11	0.40	µg/L	1			SW-846 8270E	10/29/24	10/31/24 20:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.8	15-110		10/31/24 20:24
Phenol-d6	41.3	15-110		10/31/24 20:24
Nitrobenzene-d5	79.9	30-130		10/31/24 20:24
2-Fluorobiphenyl	79.4	30-130		10/31/24 20:24
2,4,6-Tribromophenol	103	15-110		10/31/24 20:24
p-Terphenyl-d14	96.0	30-130		10/31/24 20:24

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chloroform	0.60	2.0	0.19	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.40	1.0	0.17	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Tetrachloroethylene	0.36	1.0	0.17	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.9	70-130		10/25/24 6:09
Toluene-d8	95.7	70-130		10/25/24 6:09
4-Bromofluorobenzene	99.8	70-130		10/25/24 6:09

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.7	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Atrazine	ND	20	1.7	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzaldehyde	2.6	10	0.74	µg/L	1	J		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Biphenyl	ND	20	0.94	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Caprolactam	ND	10	0.73	µg/L	1	L-04	X	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Acenaphthene	ND	5.1	0.80	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Acenaphthylene	ND	5.1	0.65	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Acetophenone	ND	10	0.51	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Aniline	ND	20	9.1	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Anthracene	ND	5.1	0.55	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(a)anthracene	ND	5.1	0.38	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(a)pyrene	ND	5.1	0.44	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(b)fluoranthene	ND	5.1	0.33	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(g,h,i)perylene	ND	5.1	0.53	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(k)fluoranthene	ND	5.1	0.47	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Bis(2-chloroethoxy)methane	ND	10	0.59	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Bis(2-chloroethyl)ether	ND	10	0.47	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.76	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.33	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Bromophenylphenylether	ND	10	0.73	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1	V-04	UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Carbazole	ND	10	0.47	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Chloroaniline	ND	10	5.3	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Chloro-3-methylphenol	ND	10	0.65	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Chloronaphthalene	ND	10	0.83	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Chlorophenol	ND	10	0.42	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Chlorophenylphenylether	ND	10	0.89	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Chrysene	ND	5.1	0.47	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Dibenz(a,h)anthracene	ND	5.1	0.49	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Dibenzofuran	ND	5.1	0.87	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Di-n-butylphthalate	ND	10	0.51	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
3,3-Dichlorobenzidine	ND	10	0.47	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dichlorophenol	ND	10	0.48	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Diethylphthalate	ND	10	0.57	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dimethylphenol	ND	10	0.42	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Dimethylphthalate	ND	10	0.45	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.4	µg/L	1	V-04	UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dinitrophenol	ND	10	1.4	µg/L	1	V-04, V-20	UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dinitrotoluene	ND	10	0.36	µg/L	1	V-20	UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,6-Dinitrotoluene	ND	10	0.56	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Fluoranthene	ND	5.1	0.57	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Fluorene	ND	5.1	0.77	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Hexachlorobenzene	ND	10	0.74	µg/L	1			SW-846 8270E	10/23/24	10/24/24 19:17	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Hexachlorocyclopentadiene	ND	10	2.9	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Hexachloroethane	ND	10	1.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Indeno(1,2,3-cd)pyrene	ND	5.1	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Isophorone	ND	10	0.55	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
1-Methylnaphthalene	ND	5.1	1.0	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Methylnaphthalene	ND	5.1	0.95	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Methylphenol	ND	10	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
3/4-Methylphenol	ND	10	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Naphthalene	ND	5.1	0.92	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Nitroaniline	ND	10	0.51	µg/L	1	V-35 UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
3-Nitroaniline	ND	10	0.53	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Nitroaniline	ND	10	0.45	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Nitrobenzene	ND	10	0.69	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Nitrophenol	ND	10	0.55	µg/L	1	V-20 UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
N-Nitrosodi-n-propylamine	ND	10	0.67	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Pentachlorophenol	ND	10	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Phenanthrene	ND	5.1	0.73	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Phenol	ND	10	0.61	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Pyrene	ND	5.1	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Pyridine	ND	20	5.2	µg/L	1	V-34 UJ	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4,5-Trichlorophenol	ND	10	0.46	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	32.9	15-110		10/24/24 19:17
Phenol-d6	24.3	15-110		10/24/24 19:17
Nitrobenzene-d5	81.6	30-130		10/24/24 19:17
2-Fluorobiphenyl	77.1	30-130		10/24/24 19:17
2,4,6-Tribromophenol	87.4	15-110		10/24/24 19:17
p-Terphenyl-d14	95.9	30-130		10/24/24 19:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.053	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Amyl Alcohol (TAA)	ND	0.021	0.0044	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0021	0.00072	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00096	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Benzene	ND	0.0021	0.00064	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromochloromethane	ND	0.0021	0.00088	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromodichloromethane	ND	0.0021	0.00053	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromoform	ND	0.0021	0.00090	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
2-Butanone (MEK)	ND	0.041	0.0087	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.042	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
n-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
sec-Butylbenzene	ND	0.0021	0.00082	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00089	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Carbon Disulfide	ND	0.021	0.010	mg/Kg dry	1		X	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Carbon Tetrachloride	ND	0.0021	0.00059	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chlorobenzene	ND	0.0021	0.00049	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chlorodibromomethane	ND	0.0010	0.00068	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chloroethane	ND	0.021	0.0014	mg/Kg dry	1		X	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chloroform	ND	0.0041	0.00067	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1	L-04, V-05	X	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Cyclohexane	ND	0.010	0.0042	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0041	0.00083	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00075	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00066	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00059	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.00090	mg/Kg dry	1	V-05	UJ	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1-Dichloroethane	ND	0.0021	0.00062	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dichloroethane	ND	0.0021	0.00071	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1-Dichloroethylene	ND	0.0041	0.00098	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00071	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00061	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dichloropropane	ND	0.0021	0.00063	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00078	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00079	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00084	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Ethanol	ND	0.21	0.041	mg/Kg dry	1	V-05	UJ	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Ethylbenzene	ND	0.0021	0.00059	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
2-Hexanone (MBK)	ND	0.021	0.0070	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00079	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00066	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Methyl Acetate	ND	0.0021	0.0014	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 9:26	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00090	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Methyl Cyclohexane	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Methylene Chloride	ND	0.021	0.00096	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0090	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Naphthalene	ND	0.0041	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
n-Propylbenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Styrene	ND	0.0021	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Tetrachloroethylene	ND	0.0021	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Toluene	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,1-Trichloroethane	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,2-Trichloroethane	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Trichloroethylene	ND	0.0021	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,3-Trichloropropane	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00099	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Vinyl Chloride	ND	0.010	0.00080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
m+p Xylene	ND	0.0041	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
o-Xylene	ND	0.0021	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Xylenes (total)	ND	0.0021	0.0021	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/24/24 9:26
Toluene-d8	101	70-130		10/24/24 9:26
4-Bromofluorobenzene	97.5	70-130		10/24/24 9:26

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.68	0.047	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Atrazine	ND	0.68	0.044	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzaldehyde	ND	0.35	0.055	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Biphenyl	ND	0.68	0.044	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Caprolactam	ND	0.35	0.060	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Acenaphthene	ND	0.17	0.033	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Acenaphthylene	ND	0.17	0.031	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Acetophenone	ND	0.35	0.036	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Aniline	ND	0.35	0.060	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Anthracene	ND	0.17	0.031	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(a)anthracene	ND	0.17	0.028	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(a)pyrene	0.041	0.17	0.031	mg/Kg dry	1	J		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(b)fluoranthene	0.070	0.17	0.028	mg/Kg dry	1	J		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(g,h,i)perylene	ND	0.17	0.050	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(k)fluoranthene	ND	0.17	0.031	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Bis(2-chloroethoxy)methane	ND	0.35	0.037	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Bis(2-chloroethyl)ether	ND	0.35	0.049	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.35	0.22	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.041	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Bromophenylphenylether	ND	0.35	0.032	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Butylbenzylphthalate	ND	0.35	0.039	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Carbazole	ND	0.17	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Chloroaniline	ND	0.67	0.061	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Chloro-3-methylphenol	ND	0.67	0.036	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Chloronaphthalene	ND	0.35	0.030	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Chlorophenol	ND	0.35	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Chlorophenylphenylether	ND	0.35	0.029	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Chrysene	ND	0.17	0.031	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Dibenz(a,h)anthracene	ND	0.17	0.048	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Dibenzofuran	ND	0.35	0.031	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Di-n-butylphthalate	ND	0.35	0.13	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
3,3-Dichlorobenzidine	ND	0.17	0.075	mg/Kg dry	1	L-04	X	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dichlorophenol	ND	0.35	0.033	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Diethylphthalate	ND	0.35	0.033	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dimethylphenol	ND	0.35	0.080	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Dimethylphthalate	ND	0.35	0.033	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4,6-Dinitro-2-methylphenol	ND	0.35	0.27	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dinitrophenol	ND	0.67	0.27	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dinitrotoluene	ND	0.35	0.035	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,6-Dinitrotoluene	ND	0.35	0.037	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Di-n-octylphthalate	ND	0.35	0.049	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Fluoranthene	0.050	0.17	0.028	mg/Kg dry	1	J		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Fluorene	ND	0.17	0.031	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Hexachlorobenzene	ND	0.35	0.033	mg/Kg dry	1			SW-846 8270E	10/23/24	10/24/24 15:45	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Hexachlorocyclopentadiene	ND	0.35	0.23	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Hexachloroethane	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Indeno(1,2,3-cd)pyrene	ND	0.17	0.056	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Isophorone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
1-Methylnaphthalene	ND	0.17	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Methylnaphthalene	ND	0.17	0.029	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
3/4-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Naphthalene	ND	0.17	0.061	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Nitroaniline	ND	0.35	0.042	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
3-Nitroaniline	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Nitroaniline	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Nitrobenzene	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Nitrophenol	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Nitrophenol	ND	0.67	0.092	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
N-Nitrosodi-n-propylamine	ND	0.35	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Pentachlorophenol	ND	0.35	0.12	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Phenanthrene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Phenol	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Pyrene	0.050	0.17	0.036	mg/Kg dry	1	J	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Pyridine	ND	0.35	0.040	mg/Kg dry	1	L-04, V-34 X	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4,5-Trichlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4,6-Trichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.0	30-130		10/24/24 15:45
Phenol-d6	40.0	30-130		10/24/24 15:45
Nitrobenzene-d5	46.4	30-130		10/24/24 15:45
2-Fluorobiphenyl	44.1	30-130		10/24/24 15:45
2,4,6-Tribromophenol	49.5	30-130		10/24/24 15:45
p-Terphenyl-d14	52.5	30-130		10/24/24 15:45

SPL 2/25/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.051	0.040	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 15:54	GJB
1,4-Dioxane	ND	0.050	0.040	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 6:25	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	31.4	15-110		11/15/24 6:25
1,4-Dioxane-d8	53.1	15-110		11/12/24 15:54

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.31	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.044	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.032	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoroheptanoic acid (PFHpA)	0.021	0.19	0.014	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorooctanoic acid (PFOA)	0.046	0.19	0.030	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorononanoic acid (PFNA)	0.028	0.19	0.013	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorodecanoic acid (PFDA)	0.036	0.19	0.017	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoroundecanoic acid (PFUnA)	0.078	0.19	0.023	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorododecanoic acid (PFDoA)	0.073	0.19	0.021	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorotridecanoic acid (PFTrDA)	0.067	0.19	0.021	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorotetradecanoic acid (PFTeDA)	0.068	0.19	0.020	µg/kg dry	1	J		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.020	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.025	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.076	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.021	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorooctanesulfonic acid (PFOS)	0.30	0.19	0.031	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.022	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.031	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.030	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.090	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.030	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.024	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.023	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.035	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.029	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.21	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.21	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.049	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.086	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	0.18	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	1.3	µg/kg dry	1	V-05	UJ	Draft Method 1633	10/30/24	11/2/24 19:53	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	1.5	µg/kg dry	1	V-05	UJ	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1			Draft Method 1633	10/30/24	11/2/24 19:53	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.058	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	111	10-130		11/2/24 19:53
13C5-PFPeA	99.0	35-150		11/2/24 19:53
13C5-PFHxA	90.2	55-150		11/2/24 19:53
13C4-PFHpA	91.4	55-150		11/2/24 19:53
13C8-PFOA	99.6	60-140		11/2/24 19:53
13C9-PFNA	97.2	55-140		11/2/24 19:53
13C6-PFDA	101	50-140		11/2/24 19:53
13C7-PFUnA	97.3	30-140		11/2/24 19:53
13C2-PFDoA	97.3	10-150		11/2/24 19:53
13C2-PFTeDA	88.5	10-130		11/2/24 19:53
13C3-PFBS	109	55-150		11/2/24 19:53
13C3-PFHxS	97.2	55-150		11/2/24 19:53
13C8-PFOS	96.8	45-140		11/2/24 19:53
13C2-4:2FTS	114	60-200		11/2/24 19:53
13C2-6:2FTS	105	60-200		11/2/24 19:53
13C2-8:2FTS	99.9	50-200		11/2/24 19:53
13C8-PFOSA	89.5	30-130		11/2/24 19:53
D3-NMeFOSA	82.5	15-130		11/2/24 19:53
D5-NEtFOSA	78.8	10-130		11/2/24 19:53
D3-NMeFOSAA	104	45-200		11/2/24 19:53
D5-NEtFOSAA	98.9	10-200		11/2/24 19:53
D7-NMeFOSE	75.7	10-150		11/2/24 19:53
D9-NEtFOSE	75.1	10-150		11/2/24 19:53
13C3-HFPO-DA	102	25-160		11/2/24 19:53

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.025	0.012	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
gamma-Chlordane [1]	ND	0.025	0.011	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Aldrin [1]	ND	0.025	0.0025	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
alpha-BHC [1]	ND	0.025	0.012	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
beta-BHC [1]	ND	0.025	0.013	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
delta-BHC [1]	ND	0.025	0.013	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
gamma-BHC (Lindane) [1]	ND	0.010	0.0035	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
4,4'-DDD [1]	ND	0.020	0.0042	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
4,4'-DDE [1]	ND	0.020	0.0022	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
4,4'-DDT [1]	ND	0.020	0.0026	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Dieldrin [1]	ND	0.020	0.0024	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endosulfan I [1]	ND	0.025	0.012	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endosulfan II [1]	ND	0.040	0.011	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endosulfan sulfate [1]	ND	0.040	0.0096	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endrin [2]	ND	0.040	0.010	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endrin aldehyde [1]	ND	0.040	0.0099	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 22:03	TG
Endrin ketone [1]	ND	0.040	0.010	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Heptachlor [1]	ND	0.025	0.0027	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Heptachlor epoxide [1]	ND	0.025	0.0029	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Methoxychlor [1]	ND	0.25	0.030	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Toxaphene [1]	ND	0.50	0.21	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		11/8/24 22:03
Decachlorobiphenyl [1]	73.7	30-150		11/8/24 17:56
Decachlorobiphenyl [2]	75.7	30-150		11/8/24 22:03
Decachlorobiphenyl [2]	73.3	30-150		11/8/24 17:56
Tetrachloro-m-xylene [1]	64.8	30-150		11/8/24 17:56
Tetrachloro-m-xylene [1]	61.8	30-150		11/8/24 22:03
Tetrachloro-m-xylene [2]	67.1	30-150		11/8/24 17:56
Tetrachloro-m-xylene [2]	63.3	30-150		11/8/24 22:03

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1221 [1]	ND	0.082	0.038	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1232 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1242 [1]	ND	0.082	0.022	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1248 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1254 [1]	ND	0.082	0.024	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1260 [1]	ND	0.082	0.017	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1262 [1]	ND	0.082	0.021	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1268 [1]	ND	0.082	0.021	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		10/28/24 21:55
Decachlorobiphenyl [2]	87.0	30-150		10/28/24 21:55
Tetrachloro-m-xylene [1]	91.7	30-150		10/28/24 21:55
Tetrachloro-m-xylene [2]	90.2	30-150		10/28/24 21:55

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4500	16	4.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Antimony	ND	1.6	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Arsenic	4.3	3.1	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 11:29	MJH
Barium	15	1.6	0.33	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Beryllium	0.24	0.16	0.048	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Cadmium	ND	0.31	0.15	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Calcium	95000	310	160	mg/Kg dry	20		SW-846 6010D	11/6/24	11/7/24 13:25	MJH
Chromium	5.2	0.63	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Cobalt	5.8	1.6	0.27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Copper	94	1.3	1.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Iron	12000	16	7.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Lead	21	0.47	0.33	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Magnesium	37000	310	73	mg/Kg dry	20		SW-846 6010D	11/6/24	11/7/24 13:25	MJH
Manganese	160	0.31	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Mercury	0.012	0.025	0.011	mg/Kg dry	1	J	SW-846 7471B	11/14/24	11/15/24 11:35	AAJ
Nickel	11	0.63	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Potassium	620	160	39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Selenium	ND	3.1	0.78	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Silver	0.73	0.31	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 11:29	MJH
Sodium	720	160	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Thallium	ND	1.6	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 11:29	MJH
Vanadium	17	0.63	0.35	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Zinc	63	0.63	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.7			% Wt	1			SM 2540G	10/29/24	10/29/24 17:49	MEF
Cyanide	ND	0.51	0.38	mg/Kg dry	1	H-01	X	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (5-5.5) 102224 | Sampled: 10/22/2024 13:30

Sample ID: 24J3350-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Amyl Alcohol (TAA)	ND	0.021	0.0046	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Benzene	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromochloromethane	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromodichloromethane	ND	0.0021	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromoform	ND	0.0021	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
2-Butanone (MEK)	ND	0.043	0.0091	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	0.044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
n-Butylbenzene	ND	0.0021	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
sec-Butylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Butylbenzene	ND	0.0021	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00093	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Carbon Disulfide	ND	0.021	0.011	mg/Kg dry	1	X	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Carbon Tetrachloride	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chlorobenzene	ND	0.0021	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chlorodibromomethane	ND	0.0011	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1	X	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chloroform	ND	0.0043	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chloromethane	ND	0.011	0.0013	mg/Kg dry	1	L-04, V-05 X	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Cyclohexane	ND	0.011	0.0044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0043	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.00094	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1-Dichloroethane	ND	0.0021	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1-Dichloroethylene	ND	0.0043	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
cis-1,2-Dichloroethylene	0.0055	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dichloropropane	ND	0.0021	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00088	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Ethanol	ND	0.21	0.043	mg/Kg dry	1	V-05 UJ	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Ethylbenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
2-Hexanone (MBK)	ND	0.021	0.0074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Methyl Acetate	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (5-5.5) 102224 | Sampled: 10/22/2024 13:30

Sample ID: 24J3350-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Methyl Cyclohexane	ND	0.0021	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Methylene Chloride	ND	0.021	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Naphthalene	ND	0.0043	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
n-Propylbenzene	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Styrene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Tetrachloroethylene	ND	0.0021	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Toluene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,1-Trichloroethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,2-Trichloroethane	ND	0.0021	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Trichloroethylene	ND	0.0021	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,3-Trichloropropane	ND	0.0021	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Vinyl Chloride	ND	0.011	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
m+p Xylene	ND	0.0043	0.0016	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Xylenes (total)	ND	0.0021	0.0021	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/24/24 9:51
Toluene-d8	99.6	70-130		10/24/24 9:51
4-Bromofluorobenzene	93.9	70-130		10/24/24 9:51

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (5-5.5) 102224 | Sampled: 10/22/2024 13:30

Sample ID: 24J3350-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.6			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (28.5-29) 102224 | Sampled: 10/22/2024 13:35

Sample ID: 24J3350-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	0.051	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00069	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	0.00092	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Benzene	ND	0.0020	0.00062	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromochloromethane	ND	0.0020	0.00085	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromodichloromethane	ND	0.0020	0.00051	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromoform	ND	0.0020	0.00087	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromomethane	ND	0.0099	0.0018	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
2-Butanone (MEK)	ND	0.040	0.0084	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Butyl Alcohol (TBA)	ND	0.099	0.041	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
n-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
sec-Butylbenzene	ND	0.0020	0.00080	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	0.00086	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1		X	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Carbon Tetrachloride	ND	0.0020	0.00057	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chlorobenzene	ND	0.0020	0.00048	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chlorodibromomethane	ND	0.00099	0.00065	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		X	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chloroform	ND	0.0040	0.00065	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chloromethane	ND	0.0099	0.0012	mg/Kg dry	1	L-04, V-05	X	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Cyclohexane	ND	0.0099	0.0040	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00080	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	0.00072	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00057	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00087	mg/Kg dry	1	V-05	UJ	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1-Dichloroethane	ND	0.0020	0.00060	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dichloroethane	ND	0.0020	0.00068	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1-Dichloroethylene	ND	0.0040	0.00095	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00069	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00059	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dichloropropane	ND	0.0020	0.00061	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
cis-1,3-Dichloropropene	ND	0.00099	0.00075	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
trans-1,3-Dichloropropene	ND	0.00099	0.00076	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Diisopropyl Ether (DIPE)	ND	0.00099	0.00081	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	V-05	UJ	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Ethylbenzene	ND	0.0020	0.00057	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
2-Hexanone (MBK)	ND	0.020	0.0068	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00076	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00064	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1			SW-846 8260D	10/24/24	10/24/24 10:17	MFF

SPL 2/25/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (28.5-29) 102224 | Sampled: 10/22/2024 13:35

Sample ID: 24J3350-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Methyl Cyclohexane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Methylene Chloride	ND	0.020	0.00093	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Naphthalene	ND	0.0040	0.00098	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
n-Propylbenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Styrene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	0.00076	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Tetrachloroethylene	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Toluene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Trichloroethylene	ND	0.0020	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00095	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Vinyl Chloride	ND	0.0099	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
m+p Xylene	ND	0.0040	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
o-Xylene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/24/24 10:17
Toluene-d8	99.0	70-130		10/24/24 10:17
4-Bromofluorobenzene	96.5	70-130		10/24/24 10:17

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (28.5-29) 102224 | Sampled: 10/22/2024 13:35

Sample ID: 24J3350-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF

con-test
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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: Trip Blank 102224 | Sampled: 10/22/2024 00:00

Sample ID: 24J3350-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: Trip Blank 102224 | Sampled: 10/22/2024 00:00

Sample ID: 24J3350-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/24/24 22:04
Toluene-d8	97.7	70-130		10/24/24 22:04
4-Bromofluorobenzene	102	70-130		10/24/24 22:04

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Pace New England	**Lab Number**	: L2461868
Project Name	: 24J3350	**Project Number**	: 24J3350
Lab ID	: L2461868-01	**Date Collected**	: 10/22/24 11:30
Client ID	: MW-2 (SS) 102224	**Date Received**	: 10/23/24
Sample Location	:	**Date Analyzed**	: 10/27/24 11:01
Sample Matrix	: SOIL	**Date Extracted**	: 10/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 17241026a-67	**Analyst**	: EJL
Sample Amount	: 30.51 g	**Instrument ID**	: PEST17
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: 97
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	3390	1070	U
94-74-6	MCPA	ND	3390	960.	U
75-99-0	Dalapon	ND	33.9	11.1	U
1918-00-9	Dicamba	ND	33.9	5.70	U
120-36-5	Dichloroprop	ND	33.9	9.74	U
94-75-7	2,4-D	ND	170	10.7	U
94-82-6	2,4-DB	ND	170	8.72	U
93-76-5	2,4,5-T	ND	170	5.26	U
93-72-1	2,4,5-TP (Silvex)	ND	170	4.51	U

VALIDATA
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2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Soil/Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, ICP Metals (6010D), Mercury(7471B), Cyanide (9014), Pesticides Method 8081B, PCBs 8082A, Herbicides 8151A, Polyfluoroalkyl Substances (PFAS) Method 1633
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24J3715
SAMPLING DATE(S):	October 23, 2024

SAMPLES:

Client Sample ID	Laboratory ID	SOIL	WATER	VOC	SVOC	1,4-DIOXANE
DPT-2(5-10)102324	24J3715-01	X		X	X	X
DPT-1(5-10)102224	24J3715-02	X		X	X	
DPT-1(11-13)102224	24J3715-03		X	X	X	
DPT-1(15-17)102224	24J3715-04		X	X	X	X
Trip Blank 102324	24J3715-05		X	X		

Client Sample ID	Laboratory ID	PFAS	PESTICIDES	PCBS	HERBICIDES
DPT-2(5-10)102324	24J3715-01	X	X	X	X
DPT-1(5-10)102224	24J3715-02		X	X	X
DPT-1(11-13)102224	24J3715-03				
DPT-1(15-17)102224	24J3715-04	X			

Client Sample ID	Laboratory ID	METALS	MERCURY	CYANIDE
DPT-2(5-10)102324	24J3715-01	X	X	X
DPT-1(5-10)102224	24J3715-02	X	X	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24J3715

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The following outliers were identified for the CCV analyzed 10/28/2024 at 10:01 am.

Analyte	%Difference	QC Limit
Trichlorofluoromethane	22.2%	20%
1,1,2-Trichloro-1,2,2-Trifluoromethane	20.1%	20%

The following outliers were identified for the CCV analyzed 10/29/2024 at 10:17 am.

Analyte	%Difference	QC Limit
1,2,3-Trichlorobenzene	27.8%	20%
1,2,4-Trichlorobenzene	20.9%	20%

Results for these analytes were flagged as estimated (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There were two Laboratory Control Sample analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analysis performed as part of this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications with some exceptions which resulted in the rejection of some data (see section VIII).

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The initial calibration analyzed 10/30/2024 had the following outliers.

Analyte	%RSD	QC Limit
Dibenz(a,h)anthracene	21.3%	20%
Indeno(1,2,3-cd)pyrene	20.4%	20%
2,4-Dinitrophenol	37.1%	20%
Di-n-octylphthalate	21.9%	20%

Results for these analytes were flagged as estimated in the affected samples; positive results(J) and negative results (UJ)

Initial Calibration Verification:

All initial calibration verification were met with the following exceptions.

For the ICV analyzed 9/24/2024

Analyte	%Difference	QC Limit
Pyridine	42.3%	20%
4-Chloroaniline	34.5%	20%

For the ICV analyzed 10/30/2024

Analyte	%Difference	QC Limit
Pyridine	37.0%	20%

Results for these analytes were flagged as estimated (UJ)

Continuing Calibration:

All continuing calibration criteria were met with the following exceptions.

The CCV analyzed 10/30/2024 at 18:08 pm had the following outlier

Analyte	% Difference	QC Limit
Caprolactam	20.9%	20%

The CCV analyzed 11/1/2024 at 7:48 am had the following outlier

Analyte	% Difference	QC Limit
Aniline	30.9%	20%

The CCV analyzed 11/1/2024 at 12:19 pm had the following outlier

Analyte	% Difference	QC Limit
Benzaldehyde	34.1%	20%

These analytes were flagged as estimated (UJ) in the affected samples.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There were two Laboratory Control Sample/Duplicates analyzed as part of this SDG. The following outliers were identified.

Water LCS/LCSD

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Caprolactam	31.4%	35.3%	40-140%
3,3'-Dichlorobenzidine	39.6%		40-140%

Soil LCS/LCSD

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Pyridine	24.2%	25.4%	30-140%

Results for these analytes were flagged as rejected (X) for the affected samples.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD)

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates analyzed as part of this fraction of the SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. The LCSD had a percent recovery(167%) that was above QC Limits. The analyte was not detected in any affected samples. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

PFAS

I.) General

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data

The overall assessment of data was acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) LC-MS Tuning:

All LC-MS Tuning criteria were met. All mass calibration criteria were met. No data qualification was necessary.

V.) Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration:

The CCV analyzed 11/18/2024 at 14:16 had the following outlier

Analyte	%Difference	QC Limit
NFDHA	31.4%	20%

The CCV analyzed 11/18/2024 at 21:05 had the following outlier

Analyte	%Difference	QC Limit
NFDHA	35.0%	20%

The CCV analyzed 11/18/2024 at 23:42 had the following outliers

Analyte	%Difference	QC Limit
NFDHA	44.9%	20%
PFDoS	34.9%	20%

The CCV analyzed 11/20/2024 at 13:01 had the following outliers

Analyte	%Difference	QC Limit
6:2 FTS	33.5%	20%
8:2 FTS	33.7%	20%

The CCV analyzed 11/20/2024 at 19:02 had the following outlier

Analyte	%Difference	QC Limit
6:2 FTS	31.6%	20%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ).

VIII.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

Equipment Blanks:

There were no blanks analyzed as part of this SDG. No data qualification was necessary

IX.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria with the following exceptions.

Sample ID	Analyte	% Recovery	QC Limits
DPT-1(15-17)GW102424	13C2-4:2 FTS	44.2%	60-200%
	13C2-6:2 FTS	47.8%	60-200%
	13C2-8:2 FTS	43.6%	50-200%

No data qualification was necessary.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

An LLLCS, LCS, and LCSD were prepared and analyzed for the soil preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XII.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XIII.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XIV.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XV.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XVI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

XVII.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

PESTICIDES

SUMMARY

I.) General:

The analyses for Pesticides were performed by GC according to SW 846 Method 8081B.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The CCV analyzed 11/7/24 at 18:43 had the following outliers

Analyte	%Difference	QC Limit
a-BHC	23.8%	20%
d-BHC	24.3%	20%
g-BHC	22.4%	20%
4,4'-DDD	23.3%	20%

The CCV analyzed 11/8/24 at 00:01 had the following outliers

Analyte	%Difference	QC Limit
a-BHC	23.1%	20%
d-BHC	23.4%	20%
g-BHC	21.8%	20%
4,4'-DDD	26.7%	20%

The CCV analyzed 11/8/24 at 08:21 had the following outliers

Analyte	%Difference	QC Limit
4,4'-DDD	26.4%	20%
4,4'-DDT	20.2%	20%
Methoxychlor	23.7%	20%

These analytes were flagged as estimated (UJ) for the affected samples.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates analyzed in this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

PCBs

SUMMARY

I.) General:

The analyses for PCBs were performed by GC according to SW 846 Method 8082A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

HERBICIDES

SUMMARY

I.) General:

The analyses for herbicides were performed by GC according to SW 846 Method 8151.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

METALS

SUMMARY

I.) General:

The analyses for Metals were performed by Inductively Coupled Plasma (ICP) according to SW-846 Method 6010B

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no detections in the blanks associated with the samples for this SDG. No action was required

IV.) ICP Interference Check Sample Results:

All Interference Percent Recovery criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

There was no serial dilution analyzed with this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

The batch LCS had the following outliers

Analyte	LCS %Difference	LCSD%Difference	QC Limits
Copper	120%		83.1-116.9%
Manganese		120%	80.7-119.5%

Positive results for these analytes were flagged as estimated, biased high (J+).

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No action was required.

VIII.) Post Digestion Spike:

There was no Post Digestion Spike analyzed with this SDG. No action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

MERCURY

SUMMARY

I.) General:

The analyses for Mercury were performed according to SW-846 Method 7470A

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no target analytes detected in any blanks. No further action was required.

V.) Serial Dilution Analysis:

There was no serial dilution analysis performed for this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed for this fraction of the SDG. No further action was required.

VIII.) Post Digestion Spike:

There was no post digestion spike analyzed with this SDG. No further action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

CYANIDE

SUMMARY

I.) General:

The analyses for Cyanide were performed per Method 9014.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification with some exceptions.

MAJOR ISSUES

There was a major problem for this fraction of the SDG which resulted in the rejection of data (see section I).

MINOR ISSUES

I.) Holding Times:

Samples were analyzed after the 14 day holding time. Results were flagged as rejected (X).

II.) Calibration:

All calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There was no detection reported in the associated method blank. No data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Lab Duplicates:

There were no lab duplicates analyzed for this fraction of the SDG. No data qualification was necessary.

Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

con-test
A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	11	0.44	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Amyl Alcohol (TAA)	ND	4.3	0.28	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.43	0.035	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.11	0.033	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Benzene	0.38	0.22	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromochloromethane	ND	0.22	0.069	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromodichloromethane	ND	0.22	0.040	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromoform	ND	0.22	0.065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromomethane	ND	0.43	0.32	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
2-Butanone (MEK)	0.56	4.3	0.31	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Butyl Alcohol (TBA)	ND	4.3	0.74	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
n-Butylbenzene	0.091	0.22	0.034	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
sec-Butylbenzene	0.12	0.22	0.035	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Butylbenzene	ND	0.22	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.11	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Carbon Disulfide	ND	1.1	0.33	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Carbon Tetrachloride	ND	0.22	0.042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chlorobenzene	ND	0.22	0.038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chlorodibromomethane	ND	0.11	0.028	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chloroethane	ND	0.43	0.099	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chloroform	ND	0.43	0.041	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chloromethane	ND	0.43	0.11	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Cyclohexane	ND	0.43	0.38	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.1	0.14	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dibromoethane (EDB)	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dichlorobenzene	ND	0.22	0.038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,3-Dichlorobenzene	ND	0.22	0.033	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,4-Dichlorobenzene	ND	0.22	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.43	0.043	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1-Dichloroethane	ND	0.22	0.032	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dichloroethane	ND	0.22	0.027	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1-Dichloroethylene	ND	0.22	0.039	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
cis-1,2-Dichloroethylene	1.4	0.22	0.044	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
trans-1,2-Dichloroethylene	ND	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dichloropropane	ND	0.22	0.037	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
cis-1,3-Dichloropropene	ND	0.11	0.028	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
trans-1,3-Dichloropropene	ND	0.11	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Diisopropyl Ether (DIPE)	ND	0.11	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Ethanol	ND	43	4.4	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Ethylbenzene	0.25	0.22	0.030	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
2-Hexanone (MBK)	ND	2.2	0.29	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Isopropylbenzene (Cumene)	0.11	0.22	0.034	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
p-Isopropyltoluene (p-Cymene)	0.095	0.22	0.034	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Methyl Acetate	0.39	2.2	0.10	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.15	0.22	0.036	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Methyl Cyclohexane	0.11	0.22	0.029	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Methylene Chloride	ND	1.1	0.041	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	2.2	0.30	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Naphthalene	0.31	0.43	0.053	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
n-Propylbenzene	0.16	0.22	0.024	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Styrene	ND	0.22	0.028	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.11	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Tetrachloroethylene	ND	0.22	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Toluene	0.68	0.22	0.025	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,3-Trichlorobenzene	ND	1.1	0.047	mg/Kg dry	1	UJ	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,4-Trichlorobenzene	ND	0.22	0.042	mg/Kg dry	1	UJ	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,1-Trichloroethane	ND	0.22	0.030	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,2-Trichloroethane	ND	0.22	0.039	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Trichloroethylene	0.13	0.22	0.036	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Trichlorofluoromethane (Freon 11)	ND	0.43	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,3-Trichloropropane	ND	0.43	0.058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,4-Trimethylbenzene	0.64	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,3,5-Trimethylbenzene	0.13	0.22	0.037	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Vinyl Chloride	ND	0.43	0.042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
m+p Xylene	0.34	0.43	0.053	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
o-Xylene	0.22	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Xylenes (total)	0.56	0.22	0.22	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.7	70-130		10/29/24 12:44
Toluene-d8	89.2	70-130		10/29/24 12:44
4-Bromofluorobenzene	109	70-130		10/29/24 12:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	2.1	0.14	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Atrazine	ND	2.1	0.14	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzaldehyde	ND	1.1	0.17	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Biphenyl	ND	2.1	0.13	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Caprolactam	ND	1.1	0.18	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Acenaphthene	ND	0.53	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Acenaphthylene	ND	0.53	0.096	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Acetophenone	ND	1.1	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Aniline	ND	1.1	0.18	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Anthracene	ND	0.53	0.093	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(a)anthracene	ND	0.53	0.086	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(a)pyrene	ND	0.53	0.096	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(b)fluoranthene	ND	0.53	0.085	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(g,h,i)perylene	ND	0.53	0.15	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(k)fluoranthene	ND	0.53	0.096	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Bis(2-chloroethoxy)methane	ND	1.1	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Bis(2-chloroethyl)ether	ND	1.1	0.15	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,2'-oxybis(1-Chloropropane)	ND	1.1	0.67	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Bis(2-Ethylhexyl)phthalate	ND	1.1	0.12	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Bromophenylphenylether	ND	1.1	0.097	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Butylbenzylphthalate	ND	1.1	0.12	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Carbazole	ND	0.53	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Chloroaniline	ND	2.1	0.19	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Chloro-3-methylphenol	ND	2.1	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Chloronaphthalene	ND	1.1	0.093	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Chlorophenol	ND	1.1	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Chlorophenylphenylether	ND	1.1	0.088	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Chrysene	ND	0.53	0.094	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Dibenz(a,h)anthracene	ND	0.53	0.15	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Dibenzofuran	ND	1.1	0.094	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Di-n-butylphthalate	ND	1.1	0.40	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
3,3-Dichlorobenzidine	ND	0.53	0.23	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dichlorophenol	ND	1.1	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Diethylphthalate	ND	1.1	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dimethylphenol	ND	1.1	0.24	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Dimethylphthalate	ND	1.1	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4,6-Dinitro-2-methylphenol	ND	1.1	0.83	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dinitrophenol	ND	2.1	0.81	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dinitrotoluene	ND	1.1	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,6-Dinitrotoluene	ND	1.1	0.11	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Di-n-octylphthalate	ND	1.1	0.15	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Fluoranthene	ND	0.53	0.087	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Fluorene	ND	0.53	0.095	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Hexachlorobenzene	ND	1.1	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 17:55	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	1.1	0.095	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Hexachlorocyclopentadiene	ND	1.1	0.69	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Hexachloroethane	ND	1.1	0.098	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Indeno(1,2,3-cd)pyrene	ND	0.53	0.17	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Isophorone	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
1-Methylnaphthalene	0.75	0.53	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Methylnaphthalene	0.17	0.53	0.090	mg/Kg dry	1	J	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Methylphenol	ND	1.1	0.14	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
3/4-Methylphenol	ND	1.1	0.14	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Naphthalene	ND	0.53	0.19	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Nitroaniline	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
3-Nitroaniline	ND	1.1	0.22	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Nitroaniline	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Nitrobenzene	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Nitrophenol	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Nitrophenol	ND	2.1	0.28	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
N-Nitrosodi-n-propylamine	ND	1.1	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Pentachlorophenol	ND	1.1	0.38	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Phenanthrene	0.10	0.53	0.094	mg/Kg dry	1	J	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Phenol	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Pyrene	ND	0.53	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Pyridine	ND	1.1	0.12	mg/Kg dry	1	L-04, V-34 X	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
1,2,4,5-Tetrachlorobenzene	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4,5-Trichlorophenol	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4,6-Trichlorophenol	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.5	30-130		11/1/24 17:55
Phenol-d6	45.7	30-130		11/1/24 17:55
Nitrobenzene-d5	44.0	30-130		11/1/24 17:55
2-Fluorobiphenyl	44.7	30-130		11/1/24 17:55
2,4,6-Tribromophenol	54.5	30-130		11/1/24 17:55
p-Terphenyl-d14	45.7	30-130		11/1/24 17:55

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.15	0.12	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 6:05	CJM
1,4-Dioxane	ND	0.16	0.12	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 7:29	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	65.5	15-110		11/12/24 7:29
1,4-Dioxane-d8	30.6	15-110		11/15/24 6:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.2	0.50	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoropentanoic acid (PFPeA)	ND	0.62	0.070	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorohexanoic acid (PFHxA)	ND	0.31	0.051	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.31	0.022	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorooctanoic acid (PFOA)	ND	0.31	0.048	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorononanoic acid (PFNA)	ND	0.31	0.021	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorodecanoic acid (PFDA)	ND	0.31	0.027	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.31	0.036	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorododecanoic acid (PFDoA)	ND	0.31	0.033	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.31	0.034	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.31	0.031	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.31	0.032	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.31	0.039	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.31	0.12	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.31	0.033	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.31	0.049	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.31	0.034	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.31	0.049	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.31	0.047	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	1.2	0.11	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	1.2	0.78	µg/kg dry	1	V-20	UJ	Draft Method 1633	11/17/24	11/20/24 18:47	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	1.2	0.14	µg/kg dry	1	V-20	UJ	Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.31	0.048	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.31	0.038	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.31	0.036	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-MeFOSAA (NMeFOSAA)	ND	0.31	0.055	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-EtFOSAA (NEtFOSAA)	ND	0.31	0.046	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	3.1	0.33	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	3.1	0.33	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.2	0.079	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.2	0.092	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
9Cl-PF3ONS (F53B Minor)	ND	1.2	0.089	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
11Cl-PF3OUdS (F53B Major)	ND	1.2	0.14	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	3.1	0.29	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	15	2.1	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	15	2.3	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.62	0.049	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.62	0.050	µg/kg dry	1			Draft Method 1633	11/17/24	11/20/24 18:47	AB

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.62	0.051	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.62	0.093	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	52.9	10-130		11/20/24 18:47
13C5-PFPeA	66.5	35-150		11/20/24 18:47
13C5-PFHxA	67.4	55-150		11/20/24 18:47
13C4-PFHpA	66.2	55-150		11/20/24 18:47
13C8-PFOA	72.7	60-140		11/20/24 18:47
13C9-PFNA	69.7	55-140		11/20/24 18:47
13C6-PFDA	69.1	50-140		11/20/24 18:47
13C7-PFUnA	67.6	30-140		11/20/24 18:47
13C2-PFDoA	61.1	10-150		11/20/24 18:47
13C2-PFTeDA	48.7	10-130		11/20/24 18:47
13C3-PFBS	75.6	55-150		11/20/24 18:47
13C3-PFHxS	72.3	55-150		11/20/24 18:47
13C8-PFOS	74.7	45-140		11/20/24 18:47
13C2-4:2FTS	127	60-200		11/20/24 18:47
13C2-6:2FTS	136	60-200		11/20/24 18:47
13C2-8:2FTS	131	50-200		11/20/24 18:47
13C8-PFOSA	65.0	30-130		11/20/24 18:47
D3-NMeFOSA	29.9	15-130		11/20/24 18:47
D5-NEtFOSA	23.8	10-130		11/20/24 18:47
D3-NMeFOSAA	83.4	45-200		11/20/24 18:47
D5-NEtFOSAA	89.0	10-200		11/20/24 18:47
D7-NMeFOSE	32.0	10-150		11/20/24 18:47
D9-NEtFOSE	29.0	10-150		11/20/24 18:47
13C3-HFPO-DA	76.2	25-160		11/20/24 18:47

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.015	0.0071	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
gamma-Chlordane [1]	ND	0.015	0.0067	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Aldrin [1]	ND	0.015	0.0015	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
alpha-BHC [1]	ND	0.015	0.0073	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:28	TG
beta-BHC [1]	ND	0.015	0.0082	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
delta-BHC [1]	ND	0.015	0.0081	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:28	TG
gamma-BHC (Lindane) [1]	ND	0.0062	0.0021	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:28	TG
4,4'-DDD [1]	ND	0.012	0.0026	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:28	TG
4,4'-DDE [2]	0.0024	0.012	0.0020	mg/Kg dry	1	J		SW-846 8081B	10/30/24	11/7/24 13:28	TG
4,4'-DDT [1]	ND	0.012	0.0016	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Dieldrin [1]	ND	0.012	0.0015	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endosulfan I [1]	ND	0.015	0.0074	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endosulfan II [1]	ND	0.025	0.0066	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endosulfan sulfate [1]	ND	0.025	0.0059	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endrin [1]	ND	0.025	0.0078	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endrin aldehyde [1]	ND	0.025	0.0061	mg/Kg dry	1			SW-846 8081B	10/30/24	11/8/24 0:32	TG
Endrin ketone [1]	ND	0.025	0.0062	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Heptachlor [1]	ND	0.015	0.0017	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Heptachlor epoxide [1]	ND	0.015	0.0018	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Methoxychlor [1]	ND	0.15	0.018	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG
Toxaphene [1]	ND	0.31	0.13	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		11/8/24 0:32
Decachlorobiphenyl [1]	83.4	30-150		11/7/24 13:28
Decachlorobiphenyl [2]	86.5	30-150		11/7/24 13:28
Decachlorobiphenyl [2]	104	30-150		11/8/24 0:32
Tetrachloro-m-xylene [1]	92.9	30-150		11/8/24 0:32
Tetrachloro-m-xylene [1]	77.1	30-150		11/7/24 13:28
Tetrachloro-m-xylene [2]	86.6	30-150		11/8/24 0:32
Tetrachloro-m-xylene [2]	72.2	30-150		11/7/24 13:28

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.25	0.062	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1221 [1]	ND	0.25	0.12	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1232 [1]	ND	0.25	0.062	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1242 [1]	ND	0.25	0.069	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1248 [1]	ND	0.25	0.060	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1254 [1]	ND	0.25	0.075	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1260 [1]	ND	0.25	0.052	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1262 [1]	ND	0.25	0.065	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1268 [1]	ND	0.25	0.066	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.6	30-150		11/4/24 16:05
Decachlorobiphenyl [2]	70.6	30-150		11/4/24 16:05
Tetrachloro-m-xylene [1]	71.5	30-150		11/4/24 16:05
Tetrachloro-m-xylene [2]	80.8	30-150		11/4/24 16:05

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Project Location: Nassau, NY
Sample Description:
Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324
Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2400	52	16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Antimony	ND	5.2	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Arsenic	5.0	10	1.5	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Barium	27	5.2	1.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Beryllium	0.24	0.52	0.16	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Cadmium	ND	1.0	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Calcium	13000	52	27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Chromium	6.9	2.1	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Cobalt	1.5	5.2	0.88	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Copper	7.9	4.2	3.7	mg/Kg dry	1	J+	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Iron	3000	52	24	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Lead	26	1.6	1.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Magnesium	1600	52	12	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Manganese	79	1.0	0.59	mg/Kg dry	1	J+	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Mercury	0.13	0.077	0.035	mg/Kg dry	1		SW-846 7471B	11/14/24	11/15/24 11:37	AAJ
Nickel	6.2	2.1	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Potassium	860	520	130	mg/Kg dry	1		SW-846 6010D	11/6/24	11/20/24 13:33	HNN
Selenium	ND	10	2.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Silver	ND	1.0	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Sodium	600	520	150	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Thallium	ND	5.2	1.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Vanadium	15	2.1	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Zinc	29	2.1	1.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	31.8			% Wt	1			SM 2540G	10/25/24	10/25/24 20:33	ANR
Cyanide	ND	1.5	1.1	mg/Kg dry	1	H-01	X	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.36	5.9	0.24	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Amyl Alcohol (TAA)	ND	2.4	0.15	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.24	0.019	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.059	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Benzene	0.10	0.12	0.017	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromochloromethane	ND	0.12	0.038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromodichloromethane	ND	0.12	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromoform	ND	0.12	0.035	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromomethane	ND	0.24	0.17	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
2-Butanone (MEK)	ND	2.4	0.17	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Butyl Alcohol (TBA)	ND	2.4	0.40	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
n-Butylbenzene	0.031	0.12	0.018	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
sec-Butylbenzene	0.091	0.12	0.019	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Butylbenzene	0.027	0.12	0.020	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.059	0.019	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Carbon Disulfide	ND	0.59	0.18	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Carbon Tetrachloride	ND	0.12	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chlorobenzene	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chlorodibromomethane	ND	0.059	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chloroethane	ND	0.24	0.054	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chloroform	ND	0.24	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chloromethane	ND	0.24	0.058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Cyclohexane	ND	0.24	0.21	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.59	0.074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dibromoethane (EDB)	ND	0.059	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dichlorobenzene	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,3-Dichlorobenzene	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,4-Dichlorobenzene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.24	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1-Dichloroethane	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dichloroethane	ND	0.12	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1-Dichloroethylene	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
cis-1,2-Dichloroethylene	ND	0.12	0.024	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
trans-1,2-Dichloroethylene	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dichloropropane	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
cis-1,3-Dichloropropene	ND	0.059	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
trans-1,3-Dichloropropene	ND	0.059	0.017	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Diisopropyl Ether (DIPE)	ND	0.059	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Ethanol	ND	24	2.4	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Ethylbenzene	ND	0.12	0.016	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
2-Hexanone (MBK)	ND	1.2	0.16	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Isopropylbenzene (Cumene)	0.078	0.12	0.018	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Methyl Acetate	0.43	1.2	0.056	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Methyl Cyclohexane	0.040	0.12	0.016	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Methylene Chloride	ND	0.59	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	1.2	0.16	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Naphthalene	ND	0.24	0.029	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
n-Propylbenzene	0.060	0.12	0.013	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Styrene	ND	0.12	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.059	0.012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Tetrachloroethylene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Toluene	0.029	0.12	0.013	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,3-Trichlorobenzene	ND	0.59	0.026	mg/Kg dry	1	UJ	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,4-Trichlorobenzene	ND	0.12	0.023	mg/Kg dry	1	UJ	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,1-Trichloroethane	ND	0.12	0.016	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,2-Trichloroethane	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Trichloroethylene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Trichlorofluoromethane (Freon 11)	ND	0.24	0.017	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,3-Trichloropropane	ND	0.24	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.12	0.019	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,4-Trimethylbenzene	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,3,5-Trimethylbenzene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Vinyl Chloride	ND	0.24	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
m+p Xylene	0.047	0.24	0.029	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
o-Xylene	0.034	0.12	0.018	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Xylenes (total)	ND	0.12	0.12	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.6	70-130		10/29/24 13:09
Toluene-d8	89.3	70-130		10/29/24 13:09
4-Bromofluorobenzene	87.6	70-130		10/29/24 13:09

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.1	0.078	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Atrazine	ND	1.1	0.074	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzaldehyde	ND	0.58	0.092	mg/Kg dry	1	V-05	UJ	SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Biphenyl	ND	1.1	0.073	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Caprolactam	ND	0.58	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Acenaphthene	ND	0.29	0.055	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Acenaphthylene	ND	0.29	0.052	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Acetophenone	ND	0.58	0.060	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Aniline	ND	0.58	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Anthracene	ND	0.29	0.051	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(a)anthracene	ND	0.29	0.047	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(a)pyrene	ND	0.29	0.052	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(b)fluoranthene	ND	0.29	0.046	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(g,h,i)perylene	ND	0.29	0.082	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(k)fluoranthene	ND	0.29	0.052	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Bis(2-chloroethoxy)methane	ND	0.58	0.061	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Bis(2-chloroethyl)ether	ND	0.58	0.082	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.58	0.36	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.58	0.068	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Bromophenylphenylether	ND	0.58	0.052	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Butylbenzylphthalate	ND	0.58	0.064	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Carbazole	ND	0.29	0.058	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Chloroaniline	ND	1.1	0.10	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Chloro-3-methylphenol	ND	1.1	0.060	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Chloronaphthalene	ND	0.58	0.050	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Chlorophenol	ND	0.58	0.058	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Chlorophenylphenylether	ND	0.58	0.048	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Chrysene	ND	0.29	0.051	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Dibenz(a,h)anthracene	ND	0.29	0.079	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Dibenzofuran	ND	0.58	0.051	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Di-n-butylphthalate	ND	0.58	0.22	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
3,3-Dichlorobenzidine	ND	0.29	0.12	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dichlorophenol	ND	0.58	0.055	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Diethylphthalate	ND	0.58	0.055	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dimethylphenol	ND	0.58	0.13	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Dimethylphthalate	ND	0.58	0.054	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4,6-Dinitro-2-methylphenol	ND	0.58	0.45	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dinitrophenol	ND	1.1	0.44	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dinitrotoluene	ND	0.58	0.058	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,6-Dinitrotoluene	ND	0.58	0.061	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Di-n-octylphthalate	ND	0.58	0.081	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Fluoranthene	ND	0.29	0.047	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Fluorene	ND	0.29	0.051	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Hexachlorobenzene	ND	0.58	0.055	mg/Kg dry	1			SW-846 8270E	10/30/24	11/1/24 18:19	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.58	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Hexachlorocyclopentadiene	ND	0.58	0.38	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Hexachloroethane	ND	0.58	0.053	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Indeno(1,2,3-cd)pyrene	ND	0.29	0.093	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Isophorone	ND	0.58	0.061	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
1-Methylnaphthalene	ND	0.29	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Methylnaphthalene	ND	0.29	0.049	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Methylphenol	ND	0.58	0.077	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
3/4-Methylphenol	ND	0.58	0.076	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Naphthalene	ND	0.29	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Nitroaniline	ND	0.58	0.070	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
3-Nitroaniline	ND	0.58	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Nitroaniline	ND	0.58	0.064	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Nitrobenzene	ND	0.58	0.072	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Nitrophenol	ND	0.58	0.056	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Nitrophenol	ND	1.1	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.58	0.073	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
N-Nitrosodi-n-propylamine	ND	0.58	0.080	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Pentachlorophenol	ND	0.58	0.21	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Phenanthrene	ND	0.29	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Phenol	ND	0.58	0.073	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Pyrene	ND	0.29	0.060	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Pyridine	ND	0.58	0.067	mg/Kg dry	1	L-04, V-34 X	SW-846 8270E	10/30/24	11/1/24 18:19	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.58	0.057	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4,5-Trichlorophenol	ND	0.58	0.059	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4,6-Trichlorophenol	ND	0.58	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.7	30-130		11/1/24 18:19
Phenol-d6	52.5	30-130		11/1/24 18:19
Nitrobenzene-d5	47.5	30-130		11/1/24 18:19
2-Fluorobiphenyl	49.6	30-130		11/1/24 18:19
2,4,6-Tribromophenol	60.2	30-130		11/1/24 18:19
p-Terphenyl-d14	52.6	30-130		11/1/24 18:19

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0083	0.0038	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
gamma-Chlordane [1]	ND	0.0083	0.0036	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Aldrin [1]	ND	0.0083	0.00081	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
alpha-BHC [1]	ND	0.0083	0.0039	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:56	TG
beta-BHC [1]	ND	0.0083	0.0044	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
delta-BHC [1]	ND	0.0083	0.0044	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:56	TG
gamma-BHC (Lindane) [1]	ND	0.0033	0.0011	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:56	TG
4,4'-DDD [1]	ND	0.0066	0.0014	mg/Kg dry	1	V-20	UJ	SW-846 8081B	10/30/24	11/7/24 13:56	TG
4,4'-DDE [2]	0.0013	0.0066	0.0011	mg/Kg dry	1	J		SW-846 8081B	10/30/24	11/7/24 13:56	TG
4,4'-DDT [1]	ND	0.0066	0.00085	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Dieldrin [1]	ND	0.0066	0.00079	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endosulfan I [1]	ND	0.0083	0.0040	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endosulfan II [1]	ND	0.013	0.0036	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endosulfan sulfate [1]	ND	0.013	0.0032	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endrin [1]	ND	0.013	0.0042	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endrin aldehyde [1]	ND	0.013	0.0033	mg/Kg dry	1			SW-846 8081B	10/30/24	11/8/24 1:01	TG
Endrin ketone [1]	ND	0.013	0.0033	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Heptachlor [1]	ND	0.0083	0.00091	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Heptachlor epoxide [1]	ND	0.0083	0.00096	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Methoxychlor [1]	ND	0.083	0.0098	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG
Toxaphene [1]	ND	0.17	0.069	mg/Kg dry	1			SW-846 8081B	10/30/24	11/7/24 13:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.6	30-150		11/8/24 1:01
Decachlorobiphenyl [1]	56.7	30-150		11/7/24 13:56
Decachlorobiphenyl [2]	68.2	30-150		11/8/24 1:01
Decachlorobiphenyl [2]	58.8	30-150		11/7/24 13:56
Tetrachloro-m-xylene [1]	58.8	30-150		11/7/24 13:56
Tetrachloro-m-xylene [1]	67.1	30-150		11/8/24 1:01
Tetrachloro-m-xylene [2]	53.6	30-150		11/7/24 13:56
Tetrachloro-m-xylene [2]	62.3	30-150		11/8/24 1:01

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	0.033	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1221 [1]	ND	0.14	0.063	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1232 [1]	ND	0.14	0.033	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1242 [1]	ND	0.14	0.037	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1248 [1]	ND	0.14	0.032	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1254 [1]	ND	0.14	0.040	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1260 [1]	ND	0.14	0.028	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1262 [1]	ND	0.14	0.035	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1268 [1]	ND	0.14	0.036	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.7	30-150		11/4/24 16:23
Decachlorobiphenyl [2]	61.0	30-150		11/4/24 16:23
Tetrachloro-m-xylene [1]	58.4	30-150		11/4/24 16:23
Tetrachloro-m-xylene [2]	64.5	30-150		11/4/24 16:23

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	29	9.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Antimony	ND	2.9	0.76	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Arsenic	6.8	5.7	0.81	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Barium	19	2.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Beryllium	0.20	0.29	0.087	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Cadmium	ND	0.57	0.27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Calcium	7200	29	15	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Chromium	14	1.1	0.72	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Cobalt	1.5	2.9	0.49	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Copper	12	2.3	2.0	mg/Kg dry	1	J+	SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Iron	9400	29	13	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Lead	9.8	0.86	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Magnesium	1200	29	6.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Manganese	100	0.57	0.33	mg/Kg dry	1	J+	SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Mercury	0.031	0.043	0.019	mg/Kg dry	1	J	SW-846 7471B	11/14/24	11/15/24 11:39	AAJ
Nickel	5.2	1.1	0.79	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Potassium	430	290	71	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 20:21	HNN
Selenium	ND	5.7	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Silver	ND	0.57	0.35	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Sodium	530	290	85	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Thallium	ND	2.9	0.91	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Vanadium	14	1.1	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Zinc	15	1.1	1.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.1			% Wt	1	H-06		SM 2540G	11/4/24	11/4/24 13:43	MLR
Cyanide	ND	0.78	0.59	mg/Kg dry	1	H-01	X	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.2	50	2.0	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Benzene	0.15	1.0	0.14	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Butyl Alcohol (TBA)	130	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Diisopropyl Ether (DIPE)	0.31	0.50	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.5	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		10/28/24 14:16
Toluene-d8	99.6	70-130		10/28/24 14:16
4-Bromofluorobenzene	99.8	70-130		10/28/24 14:16

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Atrazine	ND	19	1.6	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzaldehyde	ND	9.5	0.69	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Biphenyl	ND	19	0.87	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	X	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Acenaphthylene	ND	4.7	0.61	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Acetophenone	ND	9.5	0.48	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Aniline	ND	19	8.5	µg/L	1	V-05	UJ	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Anthracene	ND	4.7	0.51	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.55	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.5	0.71	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Bromophenylphenylether	ND	9.5	0.67	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Butylbenzylphthalate	ND	9.5	0.37	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Carbazole	ND	9.5	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Chlorophenylphenylether	ND	9.5	0.82	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Chrysene	ND	4.7	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Di-n-butylphthalate	ND	9.5	0.48	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
3,3-Dichlorobenzidine	ND	9.5	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dichlorophenol	ND	9.5	0.44	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Dimethylphthalate	ND	9.5	0.41	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Fluorene	ND	4.7	0.72	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Hexachlorobenzene	ND	9.5	0.68	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL

SPL 2/26/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Hexachloroethane	ND	9.5	1.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Isophorone	ND	9.5	0.51	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
1-Methylnaphthalene	ND	4.7	0.93	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Methylphenol	ND	9.5	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
3/4-Methylphenol	ND	9.5	0.46	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Naphthalene	ND	4.7	0.86	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Nitroaniline	ND	9.5	0.41	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Nitrophenol	ND	9.5	0.51	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.46	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Pentachlorophenol	ND	9.5	0.46	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Phenol	ND	9.5	0.56	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Pyrene	ND	4.7	0.44	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	UJ	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1			SW-846 8270E	10/26/24	11/1/24 13:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.9	15-110		11/1/24 13:56
Phenol-d6	29.5	15-110		11/1/24 13:56
Nitrobenzene-d5	78.2	30-130		11/1/24 13:56
2-Fluorobiphenyl	79.1	30-130		11/1/24 13:56
2,4,6-Tribromophenol	90.5	15-110		11/1/24 13:56
p-Terphenyl-d14	95.1	30-130		11/1/24 13:56

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chloroform	0.61	2.0	0.19	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1-Dichloroethane	0.18	1.0	0.15	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
cis-1,2-Dichloroethylene	0.33	1.0	0.20	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05 UJ	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH

SPL 2/26/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.32	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Tetrachloroethylene	0.35	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		10/28/24 14:42
Toluene-d8	100	70-130		10/28/24 14:42
4-Bromofluorobenzene	102	70-130		10/28/24 14:42

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Atrazine	ND	19	1.5	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Biphenyl	ND	19	0.87	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Caprolactam	ND	9.4	0.67	µg/L	1	L-04	X	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Acetophenone	ND	9.4	0.47	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Aniline	ND	19	8.4	µg/L	1	V-05	UJ	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Anthracene	ND	4.7	0.51	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.4	0.70	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.30	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Carbazole	ND	9.4	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Chloro-3-methylphenol	ND	9.4	0.60	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Chloronaphthalene	ND	9.4	0.76	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Chlorophenol	ND	9.4	0.38	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Chrysene	ND	4.7	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Diethylphthalate	ND	9.4	0.52	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dimethylphenol	ND	9.4	0.38	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Fluorene	ND	4.7	0.71	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Hexachloroethane	ND	9.4	1.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Isophorone	ND	9.4	0.51	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
1-Methylnaphthalene	ND	4.7	0.92	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Naphthalene	ND	4.7	0.85	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Nitrobenzene	ND	9.4	0.64	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.62	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Phenol	ND	9.4	0.56	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Pyrene	ND	4.7	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	UJ	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4,6-Trichlorophenol	ND	9.4	0.35	µg/L	1			SW-846 8270E	10/26/24	11/1/24 14:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.1	15-110		11/1/24 14:17
Phenol-d6	30.4	15-110		11/1/24 14:17
Nitrobenzene-d5	81.5	30-130		11/1/24 14:17
2-Fluorobiphenyl	80.9	30-130		11/1/24 14:17
2,4,6-Tribromophenol	71.2	15-110		11/1/24 14:17
p-Terphenyl-d14	96.7	30-130		11/1/24 14:17

SPL 2/26/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.26	0.20	0.033	µg/L	1		SW-846 8270E	11/4/24	11/6/24 2:48	GJB
1,4-Dioxane	0.32	0.20	0.033	µg/L	1	Z-01, B	SW-846 8270E	10/28/24	11/1/24 14:48	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	27.6	15-110		11/6/24 2:48
1,4-Dioxane-d8	24.8	15-110		11/1/24 14:48

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Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	4.3	2.4	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoropentanoic acid (PFPeA)	13	2.2	0.46	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorohexanoic acid (PFHxA)	13	1.1	0.26	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoroheptanoic acid (PFHpA)	8.8	1.1	0.29	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorooctanoic acid (PFOA)	13	1.1	0.28	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorononanoic acid (PFNA)	1.0	1.1	0.20	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorodecanoic acid (PFDA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorododecanoic acid (PFDoA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.1	0.32	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.1	0.28	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorobutanesulfonic acid (PFBS)	1.0	1.1	0.23	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoropentanesulfonic acid (PFPeS)	0.66	1.1	0.28	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorohexanesulfonic acid (PFHxS)	3.3	1.1	0.30	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.1	0.36	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorooctanesulfonic acid (PFOS)	4.7	1.1	0.41	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.1	0.27	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.3	0.80	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:17	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.3	3.3	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:17	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.3	1.2	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.1	0.25	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.1	0.35	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.1	0.36	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-MeFOSAA (NMeFOSAA)	ND	1.1	0.39	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-EtFOSAA (NEtFOSAA)	ND	1.1	0.43	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	11	2.9	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	11	2.9	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.3	1.1	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.3	0.89	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
9Cl-PF3ONS (F53B Minor)	ND	4.3	1.0	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
11Cl-PF3OUdS (F53B Major)	ND	4.3	1.2	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	11	2.3	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	54	12	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	54	10	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.2	0.38	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.2	0.60	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB

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Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.2	0.58	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.2	0.59	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	67.0		10-130		11/18/24 20:17
13C5-PFPeA	68.2		35-150		11/18/24 20:17
13C5-PFHxA	64.3		55-150		11/18/24 20:17
13C4-PFHpA	63.7		55-150		11/18/24 20:17
13C8-PFOA	64.4		60-140		11/18/24 20:17
13C9-PFNA	67.4		55-140		11/18/24 20:17
13C6-PFDA	66.9		50-140		11/18/24 20:17
13C7-PFUnA	61.5		30-140		11/18/24 20:17
13C2-PFDoA	51.7		10-150		11/18/24 20:17
13C2-PFTeDA	45.4		10-130		11/18/24 20:17
13C3-PFBS	72.8		55-150		11/18/24 20:17
13C3-PFHxS	69.0		55-150		11/18/24 20:17
13C8-PFOS	64.9		45-140		11/18/24 20:17
13C2-4:2FTS	**44.2**	*	60-200	PF-17C	11/18/24 20:17
13C2-6:2FTS	**47.8**	*	60-200	PF-17C	11/18/24 20:17
13C2-8:2FTS	**43.6**	*	50-200	PF-17C	11/18/24 20:17
13C8-PFOSA	60.5		30-130		11/18/24 20:17
D3-NMeFOSA	40.8		15-130		11/18/24 20:17
D5-NEtFOSA	43.8		10-130		11/18/24 20:17
D3-NMeFOSAA	67.9		45-200		11/18/24 20:17
D5-NEtFOSAA	61.7		10-200		11/18/24 20:17
D7-NMeFOSE	56.5		10-150		11/18/24 20:17
D9-NEtFOSE	55.0		10-150		11/18/24 20:17
13C3-HFPO-DA	75.7		25-160		11/18/24 20:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	630	10		mg/L	1		Draft Method 1633	10/30/24	10/30/24 12:47	ll

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: Trip Blank 102324 | Sampled: 10/23/2024 00:00

Sample ID: 24J3715-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Benzene	ND	1.0	0.14	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromoform	ND	1.0	0.30	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromomethane	ND	2.0	1.5	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chloroethane	ND	2.0	0.46	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chloroform	ND	2.0	0.19	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chloromethane	ND	2.0	0.50	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Ethanol	ND	50	20	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	UJ	SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1			SW-846 8260D	10/25/24	10/28/24 13:00	EEH

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: Trip Blank 102324 | Sampled: 10/23/2024 00:00

Sample ID: 24J3715-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		10/28/24 13:00
Toluene-d8	100	70-130		10/28/24 13:00
4-Bromofluorobenzene	104	70-130		10/28/24 13:00

Project Name: 24J3715 **Lab Number:** L2462519

Project Number: 24J3715 **Report Date:** 11/08/24

SAMPLE RESULTS

Lab ID: L2462519-01
Client ID: DPT-2 (5-10) 102324
Sample Location: Not Specified

Date Collected: 10/23/24 09:25
Date Received: 10/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/30/24 18:27
Analyst: EJL
Percent Solids: 51%
Methylation Date: 10/30/24 03:00

Extraction Method: EPA 8151A
Extraction Date: 10/29/24 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	6430	2020	1	A
MCPA	ND		ug/kg	6430	1820	1	A
Dalapon	ND		ug/kg	64.3	21.0	1	A
Dicamba	ND		ug/kg	64.3	10.8	1	A
Dichloroprop	ND		ug/kg	64.3	18.4	1	A
2,4-D	ND		ug/kg	321	20.2	1	A
2,4-DB	ND		ug/kg	321	16.5	1	A
2,4,5-T	ND		ug/kg	321	9.96	1	A
2,4,5-TP (Silvex)	ND		ug/kg	321	8.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	76		30-150	B

Project Name: 24J3715 **Lab Number:** L2462519

Project Number: 24J3715 **Report Date:** 11/08/24

SAMPLE RESULTS

Lab ID: L2462519-02
Client ID: DPT-1 (5-10) 102324
Sample Location: Not Specified

Date Collected: 10/23/24 11:20
Date Received: 10/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/30/24 18:46
Analyst: EJL
Percent Solids: 42%
Methylation Date: 10/30/24 07:30

Extraction Method: EPA 8151A
Extraction Date: 10/29/24 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	7710	2430	1	A
MCPA	ND		ug/kg	7710	2180	1	A
Dalapon	ND		ug/kg	77.1	25.2	1	A
Dicamba	ND		ug/kg	77.1	13.0	1	A
Dichloroprop	ND		ug/kg	77.1	22.1	1	A
2,4-D	ND		ug/kg	386	24.3	1	A
2,4-DB	ND		ug/kg	386	19.8	1	A
2,4,5-T	ND		ug/kg	386	12.0	1	A
2,4,5-TP (Silvex)	ND		ug/kg	386	10.2	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	92		30-150	B

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Solid/Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, Polyfluoroalkyl Substances (PFAS) Method 1633
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24J3762
SAMPLING DATE(S):	October 24,2024

SAMPLES:

Client Sample ID	Laboratory ID	SOIL	WATER	VOC
MW-3(23-23.5)102424	24J3762-01	X		X
DPT-2(5-7)GW102424	24J3762-02		X	X
DPT-2(15-17)GW102424	24J3762-03		X	X
Trip Blank 102424	24J3762-04		X	X

Client Sample ID	Laboratory ID	SVOC	1,4-DIOXANE	PFAS
MW-3(23-23.5)102424	24J3762-01		X	
DPT-2(5-7)GW102424	24J3762-02	X	X	
DPT-2(15-17)GW102424	24J3762-03	X	X	X
Trip Blank 102424	24J3762-04			

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24J3762

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The ICV analyzed 10/4/24 at 05:59 had the following outliers

Analyte	% Difference	QC Limit
Ethanol	78.0%	30%
Iodomethane	33.8%	30%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Continuing Calibration:

The CCV analyzed 10/28/2024 at 04:43 had the following outlier

Analyte	% Difference	QC Limit
Dichlorodifluoromethane	23.1%	20%

The CCV analyzed 10/28/2024 at 05:59 had the following outlier

Analyte	% Difference	QC Limit
Ethanol	45%	20%

The CCV analyzed 10/28/2024 at 10:01 had the following outliers

Analyte	% Difference	QC Limit
Dichlorodifluoromethane	33.5%	20%
Carbon Tetrachloride	20.3%	20%
Trichlorofluoromethane	22.7%	20%
1,1,2-Trichloro-1,2,2-Trifluoroethane	20.1%	20%

Results for these analytes were flagged as estimated for the affected samples; Positive results (J) and negative results (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There was one trip blank analyzed as part of this SDG. There were no target analytes detected in the trip blank. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

IX.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The following analytes had a % RSD above the QC Limits.

Analyte	%RSD	QC Limit
Dibenz(a,h)anthracene	21.3%	15%
2,4-Dinitrophenol	37.1%	15%
Di-n-Octylphthalate	21.9%	15%
Indeno(1,2,3-cd)pyrene	20.4%	15%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Initial Calibration Verification:

The ICV analyzed 10/30/24 at 12:21 had the following outliers

Analyte	% Difference	QC Limit
Pyridine	37.0%	30%

Results for this analyte were flagged as estimated; positive results (J) and negative results (UJ)

Continuing Calibration:

The CCV analyzed 10/30/2024 at 07:50 had the following outlier

Analyte	% Difference	QC Limit
Caprolactam	20.9%	20%

The CCV analyzed 11/1/2024 at 07:48 had the following outlier

Analyte	% Difference	QC Limit
Aniline	30.9%	20%

Results for these analytes were flagged as estimated for the affected samples; positive results (J) and negative results (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was two Laboratory Control Sample/Duplicates analyzed as part of this SDG. The following outliers were identified for the water LCS/LCSD.

Analyte	LCS	LCSD	QC Limits
Caprolactam	31.4%	35.3%	40-140%
3,3'-Dichlorobenzidine	39.6%		40-140%

Results for these analyes were flagged as estimated for the affected samples; positive results (J-) and negative results (UJ).

IX.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per 8270E-SIM.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met.

IX.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):
All CRQL criteria were met.

PFAS

I.) General:

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data:

The overall assessment of data was acceptable.

MAJOR ISSUES

There were no major issues for this fraction of the SDG.

MINOR ISSUES

I.) Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete and accurate case narrative in the data package. The data package contains

results for all samples and method types listed on the COC.

II.) Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures.

III.) Mass

Calibration:

All mass calibration criteria were met. No data qualification was necessary.

IV.) LC-MS Tune:

Autotunes were performed with acceptable results. All masses were acceptable. All instrument tunes met the project QPP criteria.

V.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria met all project QPP requirements, No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration (CCV):

The CCV analyzed 11/18/2024 at14:16 had the following outlier

Analyte	% Difference	QC Limit
NFDHA	31.4%	30%

The CCV analyzed 11/18/2024 at 21:05 had the following outlier

Analyte	% Difference	QC Limit
NFDHA	35.0%	30%

The CCV analyzed 11/18/2024 at 23:42 had the following outlierS

Analyte	% Difference	QC Limit
NFDHA	49.9%	30%
PFDoS	34.9%	30%

These analytes were flagged as estimated for the affected samples; positive results (J) and negative results (UJ)

VIII.) Blanks:

Instrument Blanks:

The instrument blanks met all project QAPP criteria. No data qualification

was necessary

Method Blanks:

A method blank was prepared and analyzed for the preparation batch. There were no detections in the method blank. No data qualification was needed.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

IX.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD associated with this SDG. No data qualification was necessary.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

A LLLCS, LCS, and LCSD were prepared and analyzed for the water preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Field Duplicates (FD):

A Field Duplicate sample was not associated with this SDG.

XII.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria with the following exceptions.

Sample	Analyte	% Recovery	QC Limits
DPT-2(15-17)GW102424	13C8-PFOA	59.7%	60-140%
	13C2-8:2 FTS	47.6%	50-200%

No data qualification was necessary.

XIII.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XIV.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XV.) Reporting limits (RLs):

All LOQs (Limit of Quantitation) were acceptable.

XVI.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

1 - FORM I
ANALYSIS DATA SHEET

MW-3(23-23.5)102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3762-01	File ID:	D24V30215.D
Sampled:	10/24/24 09:00	Prepared:	10/28/24 04:00	Analyzed:	10/28/24 09:52
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.51 g / 10 mL				
Batch:	B390650	Sequence:	S112899	Calibration:	2401074	Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone		0.040	0.077	
75-85-4	tert-Amyl Alcohol (TAA)		0.0033	0.015	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.00054	0.0015	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.00072	0.00077	
71-43-2	Benzene		0.00048	0.0015	
74-97-5	Bromochloromethane		0.00066	0.0015	
75-27-4	Bromodichloromethane		0.00039	0.0015	
75-25-2	Bromoform		0.00067	0.0015	
74-83-9	Bromomethane		0.0014	0.0077	
78-93-3	2-Butanone (MEK)		0.0065	0.031	
75-65-0	tert-Butyl Alcohol (TBA)		0.032	0.077	
104-51-8	n-Butylbenzene		0.00056	0.0015	
135-98-8	sec-Butylbenzene		0.00062	0.0015	
98-06-6	tert-Butylbenzene		0.00056	0.0015	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.00066	0.00077	
75-15-0	Carbon Disulfide		0.0077	0.015	
56-23-5	Carbon Tetrachloride		0.00045	0.0015	
108-90-7	Chlorobenzene		0.00037	0.0015	
124-48-1	Chlorodibromomethane		0.00051	0.00077	
75-00-3	Chloroethane		0.0011	0.015	
67-66-3	Chloroform		0.00050	0.0031	
74-87-3	Chloromethane		0.00093	0.0077	
110-82-7	Cyclohexane		0.0031	0.0077	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00062	0.0031	
106-93-4	1,2-Dibromoethane (EDB)		0.00056	0.00077	
95-50-1	1,2-Dichlorobenzene		0.00049	0.0015	
541-73-1	1,3-Dichlorobenzene		0.00044	0.0015	
106-46-7	1,4-Dichlorobenzene		0.00048	0.0015	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00067	0.015	V-05
75-34-3	1,1-Dichloroethane		0.00047	0.0015	

1 - FORM I
ANALYSIS DATA SHEET

MW-3(23-23.5)102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3762-01	File ID:	D24V30215.D
Sampled:	10/24/24 09:00	Prepared:	10/28/24 04:00	Analyzed:	10/28/24 09:52
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.51 g / 10 mL				
Batch:	B390650	Sequence:	S112899	Calibration:	2401074	Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q	
107-06-2	1,2-Dichloroethane		0.00053	0.0015		
75-35-4	1,1-Dichloroethylene		0.00074	0.0031		
156-59-2	cis-1,2-Dichloroethylene		0.00053	0.0015		
156-60-5	trans-1,2-Dichloroethylene		0.00046	0.0015		
78-87-5	1,2-Dichloropropane		0.00047	0.0015		
10061-01-5	cis-1,3-Dichloropropene		0.00058	0.00077		
10061-02-6	trans-1,3-Dichloropropene		0.00059	0.00077		
108-20-3	Diisopropyl Ether (DIPE)		0.00063	0.00077		
64-17-5	Ethanol		0.031	0.15	V-05	UJ
100-41-4	Ethylbenzene		0.00044	0.0015		
591-78-6	2-Hexanone (MBK)		0.0053	0.015		
98-82-8	Isopropylbenzene (Cumene)		0.00059	0.0015		
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00050	0.0015		
79-20-9	Methyl Acetate		0.0010	0.0015		
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00068	0.0031		
108-87-2	Methyl Cyclohexane		0.00055	0.0015		
75-09-2	Methylene Chloride		0.00072	0.015		
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0068	0.015		
91-20-3	Naphthalene		0.00076	0.0031		
103-65-1	n-Propylbenzene		0.00051	0.0015		
100-42-5	Styrene		0.00049	0.0015		
79-34-5	1,1,2,2-Tetrachloroethane		0.00059	0.00077		
127-18-4	Tetrachloroethylene		0.00067	0.0015		
108-88-3	Toluene		0.00045	0.0015		
87-61-6	1,2,3-Trichlorobenzene		0.00051	0.0015		
120-82-1	1,2,4-Trichlorobenzene		0.00050	0.0015		
71-55-6	1,1,1-Trichloroethane		0.00046	0.0015		
79-00-5	1,1,2-Trichloroethane		0.00040	0.0015		
79-01-6	Trichloroethylene		0.00058	0.0015		
75-69-4	Trichlorofluoromethane (Freon 11)		0.00090	0.0077		

1 - FORM I
ANALYSIS DATA SHEET

MW-3(23-23.5)102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3762-01	File ID:	D24V30215.D
Sampled:	10/24/24 09:00	Prepared:	10/28/24 04:00	Analyzed:	10/28/24 09:52
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.51 g / 10 mL				
Batch:	B390650	Sequence:	S112899	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.00062	0.0015	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.00080	0.0077	
95-63-6	1,2,4-Trimethylbenzene		0.00074	0.0015	
108-67-8	1,3,5-Trimethylbenzene		0.00061	0.0015	
75-01-4	Vinyl Chloride		0.00060	0.0077	
179601-23-1	m+p Xylene		0.0011	0.0031	
95-47-6	o-Xylene		0.00052	0.0015	
1330-20-7	Xylenes (total)		0.0015	0.0015	

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(5-7)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-02	File ID:	E24V30218.D
Sampled:	10/24/24 11:50	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 15:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)	40	1.3	5.0	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)	0.50	0.15	0.50	
71-43-2	Benzene	28	0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)	18	3.4	20	J
104-51-8	n-Butylbenzene	3.8	0.16	1.0	
135-98-8	sec-Butylbenzene	3.8	0.16	1.0	
98-06-6	tert-Butylbenzene	0.52	0.17	1.0	J
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	UJ
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane	16	1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	UJ
75-34-3	1,1-Dichloroethane	1.2	0.15	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(5-7)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-02	File ID:	E24V30218.D
Sampled:	10/24/24 11:50	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 15:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene	0.23	0.18	1.0	J
156-59-2	cis-1,2-Dichloroethylene	7.3	0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	UJ
100-41-4	Ethylbenzene	14	0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	R-05
98-82-8	Isopropylbenzene (Cumene)	5.2	0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)	0.78	0.16	1.0	J
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	13	0.17	1.0	
108-87-2	Methyl Cyclohexane	8.1	0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene	1.7	0.25	2.0	J
103-65-1	n-Propylbenzene	7.9	0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	40	0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene	0.24	0.17	1.0	J
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	UJ

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1 - FORM I
ANALYSIS DATA SHEET

DPT-2(5-7)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-02	File ID:	E24V30218.D
Sampled:	10/24/24 11:50	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 15:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	UJ
95-63-6	1,2,4-Trimethylbenzene	24	0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene	5.8	0.17	1.0	
75-01-4	Vinyl Chloride	31	0.19	2.0	
179601-23-1	m+p Xylene	19	0.25	2.0	
95-47-6	o-Xylene	13	0.16	1.0	
1330-20-7	Xylenes (total)	33	1.0	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	E24V30219.D
Sampled:	10/24/24 13:15	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 15:33
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)		1.3	5.0	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)		3.4	20	
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	UJ
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform	0.55	0.19	2.0	J
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	UJ
75-34-3	1,1-Dichloroethane		0.15	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	E24V30219.D
Sampled:	10/24/24 13:15	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 15:33
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	UJ
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	R-05
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene	0.41	0.17	1.0	J
108-88-3	Toluene		0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	UJ

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1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	E24V30219.D
Sampled:	10/24/24 13:15	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 15:33
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	UJ
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

1 - FORM I
ANALYSIS DATA SHEET

Trip Blank 102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Trip Blank Water	Laboratory ID:	24J3762-04	File ID:	E24V30214.D
Sampled:	10/24/24 00:00	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 13:25
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)		1.3	5.0	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)		3.4	20	
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	UJ
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	UJ
75-34-3	1,1-Dichloroethane		0.15	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

Trip Blank 102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Trip Blank Water	Laboratory ID:	24J3762-04	File ID:	E24V30214.D
Sampled:	10/24/24 00:00	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 13:25
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	UJ
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	R-05
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	UJ

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1 - FORM I
ANALYSIS DATA SHEET

Trip Blank 102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Trip Blank Water	Laboratory ID:	24J3762-04	File ID:	E24V30214.D
Sampled:	10/24/24 00:00	Prepared:	10/25/24 12:21	Analyzed:	10/28/24 13:25
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390494	Sequence:	S112951	Calibration:	2401066
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	UJ
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(5-7)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-02	File ID:	I24S306021.D
Sampled:	10/24/24 11:50	Prepared:	10/26/24 07:21	Analyzed:	11/01/24 14:38
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	106.89 mL / 1 mL				
Batch:	B390568	Sequence:	S113208	Calibration:	2401184	Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
58-90-2	2,3,4,6-Tetrachlorophenol		5.3	19		
1912-24-9	Atrazine		1.5	19		
100-52-7	Benzaldehyde		0.68	9.4		
92-52-4	Biphenyl		0.86	19		
105-60-2	Caprolactam		0.67	9.4	L-04	UJ
83-32-9	Acenaphthene	5.1	0.74	4.7		
208-96-8	Acenaphthylene		0.60	4.7		
98-86-2	Acetophenone		0.47	9.4		
62-53-3	Aniline		8.4	19	V-05	UJ
120-12-7	Anthracene		0.51	4.7		
56-55-3	Benzo(a)anthracene		0.35	4.7		
50-32-8	Benzo(a)pyrene		0.41	4.7		
205-99-2	Benzo(b)fluoranthene		0.30	4.7		
191-24-2	Benzo(g,h,i)perylene		0.49	4.7		
207-08-9	Benzo(k)fluoranthene		0.43	4.7		
111-91-1	Bis(2-chloroethoxy)methane		0.54	9.4		
111-44-4	Bis(2-chloroethyl)ether		0.43	9.4		
108-60-1	2,2'-oxybis(1-Chloropropane)		0.70	9.4		
117-81-7	Bis(2-Ethylhexyl)phthalate		0.30	9.4		
101-55-3	4-Bromophenylphenylether		0.67	9.4		
85-68-7	Butylbenzylphthalate		0.37	9.4		
86-74-8	Carbazole		0.43	9.4		
106-47-8	4-Chloroaniline		4.9	9.4		
59-50-7	4-Chloro-3-methylphenol		0.59	9.4		
91-58-7	2-Chloronaphthalene		0.76	9.4		
95-57-8	2-Chlorophenol		0.38	9.4		
7005-72-3	4-Chlorophenylphenylether		0.81	9.4		
218-01-9	Chrysene		0.43	4.7		
53-70-3	Dibenz(a,h)anthracene		0.44	4.7	V-04	UJ

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(5-7)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-02	File ID:	I24S306021.D
Sampled:	10/24/24 11:50	Prepared:	10/26/24 07:21	Analyzed:	11/01/24 14:38
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	106.89 mL / 1 mL				
Batch:	B390568	Sequence:	S113208	Calibration:	2401184	Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
132-64-9	Dibenzofuran	4.4	0.80	4.7	J	
84-74-2	Di-n-butylphthalate		0.47	9.4		
91-94-1	3,3-Dichlorobenzidine		0.43	9.4		
120-83-2	2,4-Dichlorophenol		0.44	9.4		
84-66-2	Diethylphthalate		0.52	9.4		
105-67-9	2,4-Dimethylphenol		0.38	9.4		
131-11-3	Dimethylphthalate		0.41	9.4		
534-52-1	4,6-Dinitro-2-methylphenol		2.2	19		
51-28-5	2,4-Dinitrophenol		1.3	9.4	V-04	UJ
121-14-2	2,4-Dinitrotoluene		0.33	9.4		
606-20-2	2,6-Dinitrotoluene		0.51	9.4		
117-84-0	Di-n-octylphthalate		0.31	9.4	V-04	UJ
206-44-0	Fluoranthene		0.53	4.7		
86-73-7	Fluorene	7.9	0.71	4.7		
118-74-1	Hexachlorobenzene		0.67	9.4		
87-68-3	Hexachlorobutadiene		1.2	9.4		
77-47-4	Hexachlorocyclopentadiene		2.7	9.4		
67-72-1	Hexachloroethane		1.2	9.4		
193-39-5	Indeno(1,2,3-cd)pyrene		0.44	4.7	V-04	UJ
78-59-1	Isophorone		0.51	9.4		
90-12-0	1-Methylnaphthalene	92	0.92	4.7		
91-57-6	2-Methylnaphthalene	0.94	0.87	4.7	J	
95-48-7	2-Methylphenol		0.43	9.4		
108-39-4/106-44	3/4-Methylphenol		0.45	9.4		
91-20-3	Naphthalene	1.5	0.85	4.7	J	
88-74-4	2-Nitroaniline		0.46	9.4		
99-09-2	3-Nitroaniline		0.48	9.4		
100-01-6	4-Nitroaniline		0.41	9.4		
98-95-3	Nitrobenzene		0.63	9.4		

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(5-7)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-02	File ID:	I24S306021.D
Sampled:	10/24/24 11:50	Prepared:	10/26/24 07:21	Analyzed:	11/01/24 14:38
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	106.89 mL / 1 mL				
Batch:	B390568	Sequence:	S113208	Calibration:	2401184
Instrument:	GCMSSV9				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
88-75-5	2-Nitrophenol		0.51	9.4		
100-02-7	4-Nitrophenol		1.2	9.4		
86-30-6	N-Nitrosodiphenylamine/Diphenylamine	1.3	0.45	9.4	J	
621-64-7	N-Nitrosodi-n-propylamine		0.61	9.4		
87-86-5	Pentachlorophenol		0.45	9.4		
85-01-8	Phenanthrene	8.3	0.67	4.7		
108-95-2	Phenol	1.8	0.55	9.4	J	
129-00-0	Pyrene		0.43	4.7		
110-86-1	Pyridine		4.8	19	V-34	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene		1.1	9.4		
95-95-4	2,4,5-Trichlorophenol		0.42	9.4		
88-06-2	2,4,6-Trichlorophenol		0.35	9.4		

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	I24S306022.D
Sampled:	10/24/24 13:15	Prepared:	10/26/24 07:21	Analyzed:	11/01/24 14:58
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	111.71 mL / 1 mL				
Batch:	B390568	Sequence:	S113208	Calibration:	2401184	Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
58-90-2	2,3,4,6-Tetrachlorophenol		5.0	18		
1912-24-9	Atrazine		1.5	18		
100-52-7	Benzaldehyde		0.65	9.0		
92-52-4	Biphenyl		0.82	18		
105-60-2	Caprolactam		0.64	9.0	L-04	UJ
83-32-9	Acenaphthene		0.70	4.5		
208-96-8	Acenaphthylene		0.57	4.5		
98-86-2	Acetophenone		0.45	9.0		
62-53-3	Aniline		8.0	18	V-05	UJ
120-12-7	Anthracene		0.49	4.5		
56-55-3	Benzo(a)anthracene		0.34	4.5		
50-32-8	Benzo(a)pyrene		0.39	4.5		
205-99-2	Benzo(b)fluoranthene		0.29	4.5		
191-24-2	Benzo(g,h,i)perylene		0.47	4.5		
207-08-9	Benzo(k)fluoranthene		0.41	4.5		
111-91-1	Bis(2-chloroethoxy)methane		0.51	9.0		
111-44-4	Bis(2-chloroethyl)ether		0.41	9.0		
108-60-1	2,2'-oxybis(1-Chloropropane)		0.67	9.0		
117-81-7	Bis(2-Ethylhexyl)phthalate		0.29	9.0		
101-55-3	4-Bromophenylphenylether		0.64	9.0		
85-68-7	Butylbenzylphthalate		0.35	9.0		
86-74-8	Carbazole		0.41	9.0		
106-47-8	4-Chloroaniline		4.6	9.0		
59-50-7	4-Chloro-3-methylphenol		0.57	9.0		
91-58-7	2-Chloronaphthalene		0.73	9.0		
95-57-8	2-Chlorophenol		0.37	9.0		
7005-72-3	4-Chlorophenylphenylether		0.78	9.0		
218-01-9	Chrysene		0.41	4.5		
53-70-3	Dibenz(a,h)anthracene		0.43	4.5	V-04	UJ

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	I24S306022.D
Sampled:	10/24/24 13:15	Prepared:	10/26/24 07:21	Analyzed:	11/01/24 14:58
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	111.71 mL / 1 mL				
Batch:	B390568	Sequence:	S113208	Calibration:	2401184	Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
132-64-9	Dibenzofuran		0.77	4.5		
84-74-2	Di-n-butylphthalate		0.45	9.0		
91-94-1	3,3-Dichlorobenzidine		0.41	9.0		
120-83-2	2,4-Dichlorophenol		0.42	9.0		
84-66-2	Diethylphthalate		0.50	9.0		
105-67-9	2,4-Dimethylphenol		0.37	9.0		
131-11-3	Dimethylphthalate		0.39	9.0		
534-52-1	4,6-Dinitro-2-methylphenol		2.1	18		
51-28-5	2,4-Dinitrophenol		1.2	9.0	V-04	UJ
121-14-2	2,4-Dinitrotoluene		0.31	9.0		
606-20-2	2,6-Dinitrotoluene		0.49	9.0		
117-84-0	Di-n-octylphthalate		0.29	9.0	V-04	UJ
206-44-0	Fluoranthene		0.50	4.5		
86-73-7	Fluorene		0.68	4.5		
118-74-1	Hexachlorobenzene		0.65	9.0		
87-68-3	Hexachlorobutadiene		1.1	9.0		
77-47-4	Hexachlorocyclopentadiene		2.5	9.0		
67-72-1	Hexachloroethane		1.1	9.0		
193-39-5	Indeno(1,2,3-cd)pyrene		0.43	4.5	V-04	UJ
78-59-1	Isophorone		0.49	9.0		
90-12-0	1-Methylnaphthalene		0.88	4.5		
91-57-6	2-Methylnaphthalene		0.83	4.5		
95-48-7	2-Methylphenol		0.41	9.0		
108-39-4/106-44	3/4-Methylphenol		0.43	9.0		
91-20-3	Naphthalene		0.81	4.5		
88-74-4	2-Nitroaniline		0.44	9.0		
99-09-2	3-Nitroaniline		0.46	9.0		
100-01-6	4-Nitroaniline		0.39	9.0		
98-95-3	Nitrobenzene		0.60	9.0		

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	I24S306022.D
Sampled:	10/24/24 13:15	Prepared:	10/26/24 07:21	Analyzed:	11/01/24 14:58
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	111.71 mL / 1 mL				
Batch:	B390568	Sequence:	S113208	Calibration:	2401184
				Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
88-75-5	2-Nitrophenol		0.49	9.0		
100-02-7	4-Nitrophenol		1.2	9.0		
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.43	9.0		
621-64-7	N-Nitrosodi-n-propylamine		0.59	9.0		
87-86-5	Pentachlorophenol		0.43	9.0		
85-01-8	Phenanthrene		0.64	4.5		
108-95-2	Phenol		0.53	9.0		
129-00-0	Pyrene		0.41	4.5		
110-86-1	Pyridine		4.6	18	V-34	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene		1.1	9.0		
95-95-4	2,4,5-Trichlorophenol		0.41	9.0		
88-06-2	2,4,6-Trichlorophenol		0.34	9.0		

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	F24S306018.D
Sampled:	10/24/24 13:15	Prepared:	10/28/24 08:54	Analyzed:	11/01/24 15:07
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	1020 mL / 1 mL				
Batch:	B390627	Sequence:	S113231	Calibration:	2401159
Instrument:	GCMSSV6				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
123-91-1	1,4-Dioxane	0.25	0.032	0.20	Z-01, B	J+

SPL 2/3/2025

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03RE1	File ID:	F24S316041.D
Sampled:	10/24/24 13:15	Prepared:	11/04/24 07:20	Analyzed:	11/11/24 21:35
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	1000 mL / 1 mL				
Batch:	B391271	Sequence:	S113770	Calibration:	2401159
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.26	0.033	0.20	J+

SPL 2/3/2025

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	24J3762-03.d
Sampled:	10/24/24 13:15	Prepared:	11/15/24 00:00	Analyzed:	11/18/24 20:33
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	462.86 mL / 5 mL				
Batch:	B392050	Sequence:	S114148	Calibration:	2401232	Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	12	2.4	4.3	
2706-90-3	Perfluoropentanoic acid (PFPeA)	31	0.46	2.2	
307-24-4	Perfluorohexanoic acid (PFHxA)	31	0.26	1.1	
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.4	0.29	1.1	
335-67-1	Perfluorooctanoic acid (PFOA)	9.9	0.28	1.1	S-29
375-95-1	Perfluorononanoic acid (PFNA)	0.75	0.20	1.1	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.53	0.22	1.1	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.22	1.1	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.22	1.1	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.32	1.1	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.28	1.1	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.7	0.23	1.1	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.56	0.28	1.1	J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.3	0.30	1.1	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.36	1.1	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.2	0.41	1.1	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.27	1.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.31	1.1	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.31	1.1	UJ
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.81	4.3	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6		3.3	4.3	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.2	4.3	PF-17C
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.25	1.1	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.35	1.1	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.36	1.1	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.56	0.39	1.1	PF-22, J
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.43	1.1	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		3.0	11	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.9	11	

SPL 2/3/2025

1 - FORM I
ANALYSIS DATA SHEET

DPT-2(15-17)GW102424

Laboratory:	Pace New England			Work Order:	24J3762
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3762-03	File ID:	24J3762-03.d
Sampled:	10/24/24 13:15	Prepared:	11/15/24 00:00	Analyzed:	11/18/24 20:33
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	462.86 mL / 5 mL				
Batch:	B392050	Sequence:	S114148	Calibration:	2401232
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		1.1	4.3	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.89	4.3	
756426-58-1	9Cl-PF3ONS (F53B Minor)		1.0	4.3	
763051-92-9	11Cl-PF3OUdS (F53B Major)		1.2	4.3	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.4	11	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		12	54	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		10	54	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.38	2.2	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.60	2.2	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.58	2.2	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.60	2.2	

VALIDATA
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DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Solid
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, Polyfluoroalkyl Substances (PFAS) Method 1633
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24J3930
SAMPLING DATE(S):	October 25,2024

SAMPLES:

Client Sample ID	Laboratory ID	SOIL	WATER	VOC
DPT-4(10-15)102524	24J3930-01	X		X
MW-4(26-29)102524	24J3930-02	X		X
MW-4(11.5-12)102524	24J3930-03	X		X
MW-4(20-22)102524	24J3930-04	X		
DPT-4(20-22)102524	24J3930-05		X	X
DPT-4(10-12)102524	24J3930-06		X	X
Trip Blank	24J3930-07		X	X

Client Sample ID	Laboratory ID	SVOC	1,4-DIOXANE	PFAS
DPT-4(10-15)102524	24J3930-01	X	X	
MW-4(26-29)102524	24J3930-02	X	X	X
MW-4(11.5-12)102524	24J3930-03			
MW-4(20-22)102524	24J3930-04			X
DPT-4(20-22)102524	24J3930-05	X	X	
DPT-4(10-12)102524	24J3930-06	X	X	
Trip Blank	24J3930-07			

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24J3930

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The ICV analyzed 10/4/24 at 05:59 had the following outliers

Analyte	% Difference	QC Limit
Ethanol	78.0%	30%
Iodomethane	33.8%	30%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Continuing Calibration:

The CCV analyzed 10/29/2024 at 05:36 had the following outlier

Analyte	% Difference	QC Limit
Ethanol	47.1%	20%

The CCV analyzed 10/30/2024 at 08:44 had the following outliers

Analyte	% Difference	QC Limit
1,2,3-Trichlorobenzene	25.1%	20%
1,2,4-Trichlorobenzene	22.2%	20%

Results for these analytes were flagged as estimated for the affected samples; Positive results (J) and negative results (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There was one trip blank analyzed as part of this SDG. There were no target analytes detected in the trip blank. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There was one Laboratory Control Sample analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

IX.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The following analytes had a % RSD above the QC Limits.

Analyte	%RSD	QC Limit
Dibenz(a,h)anthracene	21.3%	15%
2,4-Dinitrophenol	37.1%	15%
Di-n-Octylphthalate	21.9%	15%
Indeno(1,2,3-cd)pyrene	20.4%	15%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Initial Calibration Verification:

The ICV analyzed 9/24/24 at 13:38 had the following outliers

Analyte	% Difference	QC Limit
Pyridine	37.0%	30%
4-Chloroaniline	34.5%	30%

The ICV analyzed 10/30/24 at 12:21 had the following outliers

Analyte	% Difference	QC Limit
Pyridine	37.0%	30%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Continuing Calibration:

The CCV analyzed 11/1/2024 at 07:48 had the following outlier

Analyte	% Difference	QC Limit
Benzaldehyde	34.1%	20%

The CCV analyzed 11/1/2024 at 07:48 had the following outliers

Analyte	% Difference	QC Limit
Aniline	28.3%	20%
2,4-Dinitrophenol	26.5%	20%

The CCV analyzed 11/4/2024 at 10:45 had the following outliers

Analyte	% Difference	QC Limit
Aniline	31.6%	20%
2,4-Dinitrophenol	31.1%	20%

The CCV analyzed 11/6/2024 at 7:52 had the following outliers

Analyte	% Difference	QC Limit
Aniline	30.6%	20%
2,4-Dinitrophenol	34.2%	20%

Results for these analytes were flagged as estimated for the affected samples; positive results (J) and negative results (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was three Laboratory Control Sample/Duplicates analyzed as part of this SDG. The following outliers were identified for the soil LCS/LCSD.

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Pyridine	24.2%	25.4%	30-140%

The following outliers were identified for the LCS/LCSD for batch B390727.

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Caprolactam	37.3%	39.5%	40-140%

The following outliers were identified for the LCS/LCSD for batch B390727.

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Caprolactam	32.9%	34.9%	40-140%
3,3'-Dichlorobenzidine	39.9%		40-140%

Results for these analyes were flagged as estimated for the affected samples; positive results (J-) and negative results (UJ).

IX.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per 8270E-SIM.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. The LCS had a recovery for 1,4-Dioxane (167%) that was above QC Limits. Results for this analyte were flagged as estimated; positive results (J+) and negative results (UJ).

IX.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):
All CRQL criteria were met.

PFAS

I.) General:

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data:

The overall assessment of data was acceptable.

MAJOR ISSUES

There were no major issues for this fraction of the SDG.

MINOR ISSUES

I.) Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete and accurate case narrative in the data package. The data package contains results for all samples and method types listed on the COC.

II.) Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures.

III.) Mass

Calibration:

All mass calibration criteria were met. No data qualification was necessary.

IV.) LC-MS Tune:

Autotunes were performed with acceptable results. All masses were acceptable. All instrument tunes met the project QPP criteria.

V.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria met all project QPP requirements, No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration (CCV):

The CCV analyzed 11/18/2024 at14:16 had the following outlier

All continuing criteria were met. No data qualification was necessary.

VIII.) Blanks:

Instrument Blanks:

The instrument blanks met all project QAPP criteria. No data qualification

was necessary

Method Blanks:

A method blank was prepared and analyzed for the preparation batch. There were no detections in the method blank. No data qualification was needed.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

IX.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

There was no MS/MSD associated with this SDG. No data qualification was necessary.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

A LLLCS, LCS, and LCSD were prepared and analyzed for the water preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Field Duplicates (FD):

A Field Duplicate sample was not associated with this SDG.

XII.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria. No data qualification was necessary.

XIII.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XIV.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XV.) Reporting limits (RLs):

All LOQs (Limit of Quantitation) were acceptable.

XVI.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-15) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-01	File ID:	D24V30309.D
Sampled:	10/25/24 10:45	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 07:18
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.87 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074	Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone		0.038	0.073	
75-85-4	tert-Amyl Alcohol (TAA)		0.0031	0.015	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.00051	0.0015	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.00068	0.00073	
71-43-2	Benzene		0.00046	0.0015	
74-97-5	Bromochloromethane		0.00063	0.0015	
75-27-4	Bromodichloromethane		0.00037	0.0015	
75-25-2	Bromoform		0.00064	0.0015	
74-83-9	Bromomethane		0.0013	0.0073	
78-93-3	2-Butanone (MEK)		0.0061	0.029	
75-65-0	tert-Butyl Alcohol (TBA)		0.030	0.073	
104-51-8	n-Butylbenzene		0.00053	0.0015	
135-98-8	sec-Butylbenzene		0.00059	0.0015	
98-06-6	tert-Butylbenzene		0.00053	0.0015	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.00063	0.00073	
75-15-0	Carbon Disulfide		0.0073	0.015	
56-23-5	Carbon Tetrachloride		0.00042	0.0015	
108-90-7	Chlorobenzene		0.00035	0.0015	
124-48-1	Chlorodibromomethane		0.00048	0.00073	
75-00-3	Chloroethane		0.0010	0.015	
67-66-3	Chloroform		0.00048	0.0029	
74-87-3	Chloromethane		0.00088	0.0073	
110-82-7	Cyclohexane		0.0030	0.0073	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00059	0.0029	
106-93-4	1,2-Dibromoethane (EDB)		0.00053	0.00073	
95-50-1	1,2-Dichlorobenzene		0.00047	0.0015	
541-73-1	1,3-Dichlorobenzene		0.00042	0.0015	
106-46-7	1,4-Dichlorobenzene		0.00045	0.0015	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00064	0.015	
75-34-3	1,1-Dichloroethane		0.00044	0.0015	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-15) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-01	File ID:	D24V30309.D
Sampled:	10/25/24 10:45	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 07:18
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.87 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074	Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q	
107-06-2	1,2-Dichloroethane		0.00050	0.0015		
75-35-4	1,1-Dichloroethylene		0.00070	0.0029		
156-59-2	cis-1,2-Dichloroethylene		0.00050	0.0015		
156-60-5	trans-1,2-Dichloroethylene		0.00043	0.0015		
78-87-5	1,2-Dichloropropane		0.00045	0.0015		
10061-01-5	cis-1,3-Dichloropropene		0.00055	0.00073		
10061-02-6	trans-1,3-Dichloropropene		0.00056	0.00073		
108-20-3	Diisopropyl Ether (DIPE)		0.00059	0.00073		
64-17-5	Ethanol		0.029	0.15	V-05, V-34	UJ
100-41-4	Ethylbenzene		0.00042	0.0015		
591-78-6	2-Hexanone (MBK)		0.0050	0.015		
98-82-8	Isopropylbenzene (Cumene)		0.00056	0.0015		
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00047	0.0015		
79-20-9	Methyl Acetate		0.00097	0.0015		
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00064	0.0029		
108-87-2	Methyl Cyclohexane		0.00052	0.0015		
75-09-2	Methylene Chloride		0.00068	0.015		
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0064	0.015		
91-20-3	Naphthalene		0.00072	0.0029		
103-65-1	n-Propylbenzene		0.00048	0.0015		
100-42-5	Styrene		0.00046	0.0015		
79-34-5	1,1,2,2-Tetrachloroethane		0.00056	0.00073		
127-18-4	Tetrachloroethylene		0.00063	0.0015		
108-88-3	Toluene		0.00043	0.0015		
87-61-6	1,2,3-Trichlorobenzene		0.00048	0.0015		
120-82-1	1,2,4-Trichlorobenzene		0.00048	0.0015		
71-55-6	1,1,1-Trichloroethane		0.00043	0.0015		
79-00-5	1,1,2-Trichloroethane		0.00037	0.0015		
79-01-6	Trichloroethylene		0.00055	0.0015		
75-69-4	Trichlorofluoromethane (Freon 11)		0.00086	0.0073		

SPL 2/3/2025

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-15) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-01	File ID:	D24V30309.D
Sampled:	10/25/24 10:45	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 07:18
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.87 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.00059	0.0015	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.00076	0.0073	
95-63-6	1,2,4-Trimethylbenzene		0.00070	0.0015	
108-67-8	1,3,5-Trimethylbenzene		0.00058	0.0015	
75-01-4	Vinyl Chloride		0.00057	0.0073	
179601-23-1	m+p Xylene		0.0011	0.0029	
95-47-6	o-Xylene		0.00049	0.0015	
1330-20-7	Xylenes (total)		0.0015	0.0015	

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ANALYSIS DATA SHEET

MW-4 (26-29) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-02	File ID:	D24V30310.D
Sampled:	10/25/24 13:35	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 07:44
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.61 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074	Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone		0.046	0.089	
75-85-4	tert-Amyl Alcohol (TAA)		0.0038	0.018	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.00062	0.0018	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.00083	0.00089	
71-43-2	Benzene		0.00056	0.0018	
74-97-5	Bromochloromethane		0.00077	0.0018	
75-27-4	Bromodichloromethane		0.00046	0.0018	
75-25-2	Bromoform		0.00078	0.0018	
74-83-9	Bromomethane		0.0016	0.0089	
78-93-3	2-Butanone (MEK)		0.0075	0.036	
75-65-0	tert-Butyl Alcohol (TBA)		0.037	0.089	
104-51-8	n-Butylbenzene		0.00065	0.0018	
135-98-8	sec-Butylbenzene		0.00072	0.0018	
98-06-6	tert-Butylbenzene		0.00065	0.0018	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.00077	0.00089	
75-15-0	Carbon Disulfide		0.0090	0.018	
56-23-5	Carbon Tetrachloride		0.00052	0.0018	
108-90-7	Chlorobenzene		0.00043	0.0018	
124-48-1	Chlorodibromomethane		0.00059	0.00089	
75-00-3	Chloroethane		0.0012	0.018	
67-66-3	Chloroform		0.00058	0.0036	
74-87-3	Chloromethane		0.0011	0.0089	
110-82-7	Cyclohexane		0.0036	0.0089	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00072	0.0036	
106-93-4	1,2-Dibromoethane (EDB)		0.00065	0.00089	
95-50-1	1,2-Dichlorobenzene		0.00057	0.0018	
541-73-1	1,3-Dichlorobenzene		0.00051	0.0018	
106-46-7	1,4-Dichlorobenzene		0.00055	0.0018	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00078	0.018	
75-34-3	1,1-Dichloroethane		0.00054	0.0018	

1 - FORM I
ANALYSIS DATA SHEET

MW-4 (26-29) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-02	File ID:	D24V30310.D
Sampled:	10/25/24 13:35	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 07:44
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.61 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q	
107-06-2	1,2-Dichloroethane		0.00061	0.0018		
75-35-4	1,1-Dichloroethylene		0.00085	0.0036		
156-59-2	cis-1,2-Dichloroethylene		0.00062	0.0018		
156-60-5	trans-1,2-Dichloroethylene		0.00053	0.0018		
78-87-5	1,2-Dichloropropane		0.00055	0.0018		
10061-01-5	cis-1,3-Dichloropropene		0.00068	0.00089		
10061-02-6	trans-1,3-Dichloropropene		0.00069	0.00089		
108-20-3	Diisopropyl Ether (DIPE)		0.00073	0.00089		
64-17-5	Ethanol		0.036	0.18	V-05, V-34	UJ
100-41-4	Ethylbenzene		0.00051	0.0018		
591-78-6	2-Hexanone (MBK)		0.0061	0.018		
98-82-8	Isopropylbenzene (Cumene)		0.00069	0.0018		
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00058	0.0018		
79-20-9	Methyl Acetate		0.0012	0.0018		
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00078	0.0036		
108-87-2	Methyl Cyclohexane		0.00064	0.0018		
75-09-2	Methylene Chloride		0.00084	0.018		
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0079	0.018		
91-20-3	Naphthalene		0.00088	0.0036		
103-65-1	n-Propylbenzene		0.00059	0.0018		
100-42-5	Styrene		0.00057	0.0018		
79-34-5	1,1,2,2-Tetrachloroethane		0.00069	0.00089		
127-18-4	Tetrachloroethylene		0.00078	0.0018		
108-88-3	Toluene		0.00053	0.0018		
87-61-6	1,2,3-Trichlorobenzene		0.00059	0.0018		
120-82-1	1,2,4-Trichlorobenzene		0.00059	0.0018		
71-55-6	1,1,1-Trichloroethane		0.00053	0.0018		
79-00-5	1,1,2-Trichloroethane		0.00046	0.0018		
79-01-6	Trichloroethylene		0.00067	0.0018		
75-69-4	Trichlorofluoromethane (Freon 11)		0.0010	0.0089		

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1 - FORM I
ANALYSIS DATA SHEET

MW-4 (26-29) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-02	File ID:	D24V30310.D
Sampled:	10/25/24 13:35	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 07:44
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.61 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.00072	0.0018	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.00093	0.0089	
95-63-6	1,2,4-Trimethylbenzene		0.00086	0.0018	
108-67-8	1,3,5-Trimethylbenzene		0.00071	0.0018	
75-01-4	Vinyl Chloride		0.00069	0.0089	
179601-23-1	m+p Xylene		0.0013	0.0036	
95-47-6	o-Xylene		0.00060	0.0018	
1330-20-7	Xylenes (total)		0.0018	0.0018	

1 - FORM I
ANALYSIS DATA SHEET

MW-4 (11.5-12) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-03	File ID:	D24V30311.D
Sampled:	10/25/24 13:15	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 08:09
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.65 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone		0.039	0.075	
75-85-4	tert-Amyl Alcohol (TAA)		0.0032	0.015	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.00053	0.0015	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.00070	0.00075	
71-43-2	Benzene		0.00047	0.0015	
74-97-5	Bromochloromethane		0.00065	0.0015	
75-27-4	Bromodichloromethane		0.00039	0.0015	
75-25-2	Bromoform		0.00066	0.0015	
74-83-9	Bromomethane		0.0013	0.0075	
78-93-3	2-Butanone (MEK)		0.0064	0.030	
75-65-0	tert-Butyl Alcohol (TBA)		0.031	0.075	
104-51-8	n-Butylbenzene		0.00055	0.0015	
135-98-8	sec-Butylbenzene		0.00060	0.0015	
98-06-6	tert-Butylbenzene		0.00055	0.0015	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.00065	0.00075	
75-15-0	Carbon Disulfide		0.0076	0.015	
56-23-5	Carbon Tetrachloride		0.00044	0.0015	
108-90-7	Chlorobenzene		0.00036	0.0015	
124-48-1	Chlorodibromomethane		0.00050	0.00075	
75-00-3	Chloroethane		0.0011	0.015	
67-66-3	Chloroform		0.00049	0.0030	
74-87-3	Chloromethane		0.00091	0.0075	
110-82-7	Cyclohexane		0.0031	0.0075	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00061	0.0030	
106-93-4	1,2-Dibromoethane (EDB)		0.00055	0.00075	
95-50-1	1,2-Dichlorobenzene		0.00048	0.0015	
541-73-1	1,3-Dichlorobenzene		0.00043	0.0015	
106-46-7	1,4-Dichlorobenzene		0.00047	0.0015	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00066	0.015	
75-34-3	1,1-Dichloroethane		0.00046	0.0015	

1 - FORM I
ANALYSIS DATA SHEET

MW-4 (11.5-12) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-03	File ID:	D24V30311.D
Sampled:	10/25/24 13:15	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 08:09
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.65 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q	
107-06-2	1,2-Dichloroethane		0.00052	0.0015		
75-35-4	1,1-Dichloroethylene		0.00072	0.0030		
156-59-2	cis-1,2-Dichloroethylene		0.00052	0.0015		
156-60-5	trans-1,2-Dichloroethylene		0.00045	0.0015		
78-87-5	1,2-Dichloropropane		0.00046	0.0015		
10061-01-5	cis-1,3-Dichloropropene		0.00057	0.00075		
10061-02-6	trans-1,3-Dichloropropene		0.00058	0.00075		
108-20-3	Diisopropyl Ether (DIPE)		0.00061	0.00075		
64-17-5	Ethanol		0.030	0.15	V-05, V-34	UJ
100-41-4	Ethylbenzene		0.00043	0.0015		
591-78-6	2-Hexanone (MBK)		0.0052	0.015		
98-82-8	Isopropylbenzene (Cumene)		0.00058	0.0015		
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00049	0.0015		
79-20-9	Methyl Acetate		0.0010	0.0015		
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00066	0.0030		
108-87-2	Methyl Cyclohexane		0.00054	0.0015		
75-09-2	Methylene Chloride		0.00071	0.015		
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0066	0.015		
91-20-3	Naphthalene		0.00074	0.0030		
103-65-1	n-Propylbenzene		0.00050	0.0015		
100-42-5	Styrene		0.00048	0.0015		
79-34-5	1,1,2,2-Tetrachloroethane		0.00058	0.00075		
127-18-4	Tetrachloroethylene		0.00066	0.0015		
108-88-3	Toluene		0.00045	0.0015		
87-61-6	1,2,3-Trichlorobenzene		0.00050	0.0015		
120-82-1	1,2,4-Trichlorobenzene		0.00049	0.0015		
71-55-6	1,1,1-Trichloroethane		0.00045	0.0015		
79-00-5	1,1,2-Trichloroethane		0.00039	0.0015		
79-01-6	Trichloroethylene		0.00057	0.0015		
75-69-4	Trichlorofluoromethane (Freon 11)		0.00089	0.0075		

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1 - FORM I
ANALYSIS DATA SHEET

MW-4 (11.5-12) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-03	File ID:	D24V30311.D
Sampled:	10/25/24 13:15	Prepared:	10/29/24 04:00	Analyzed:	10/29/24 08:09
Solids:		Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	6.65 g / 10 mL				
Batch:	B390744	Sequence:	S112978	Calibration:	2401074
				Instrument:	GCMSVOA4

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.00061	0.0015	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.00079	0.0075	
95-63-6	1,2,4-Trimethylbenzene		0.00072	0.0015	
108-67-8	1,3,5-Trimethylbenzene		0.00060	0.0015	
75-01-4	Vinyl Chloride		0.00058	0.0075	
179601-23-1	m+p Xylene		0.0011	0.0030	
95-47-6	o-Xylene		0.00051	0.0015	
1330-20-7	Xylenes (total)		0.0015	0.0015	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (20-22) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-05	File ID:	E24V30413.D
Sampled:	10/25/24 15:10	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 13:50
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.2	2.0	50	J
75-85-4	tert-Amyl Alcohol (TAA)		1.3	5.0	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)		3.4	20	
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (20-22) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-05	File ID:	E24V30413.D
Sampled:	10/25/24 15:10	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 13:50
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	UJ
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.29	0.17	1.0	J
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	1.1	0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	UJ
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	UJ
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (20-22) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-05	File ID:	E24V30413.D
Sampled:	10/25/24 15:10	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 13:50
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-12) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-06	File ID:	E24V30414.D
Sampled:	10/25/24 15:30	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 14:15
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)		1.3	5.0	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)	12	3.4	20	J
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-12) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-06	File ID:	E24V30414.D
Sampled:	10/25/24 15:30	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 14:15
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	UJ
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	2.0	0.17	1.0	
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	UJ
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	UJ
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-12) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-06	File ID:	E24V30414.D
Sampled:	10/25/24 15:30	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 14:15
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

1 - FORM I
ANALYSIS DATA SHEET

Trip Blank

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Trip Blank Water	Laboratory ID:	24J3930-07	File ID:	E24V30407.D
Sampled:	10/25/24 00:00	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 11:17
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
75-85-4	tert-Amyl Alcohol (TAA)		1.3	5.0	
919-94-8	tert-Amyl Ethyl Ether (TAEE)		0.16	0.50	
994-05-8	tert-Amyl Methyl Ether (TAME)		0.15	0.50	
71-43-2	Benzene		0.14	1.0	
74-97-5	Bromochloromethane		0.32	1.0	
75-27-4	Bromodichloromethane		0.19	0.50	
75-25-2	Bromoform		0.30	1.0	
74-83-9	Bromomethane		1.5	2.0	
78-93-3	2-Butanone (MEK)		1.4	20	
75-65-0	tert-Butyl Alcohol (TBA)		3.4	20	
104-51-8	n-Butylbenzene		0.16	1.0	
135-98-8	sec-Butylbenzene		0.16	1.0	
98-06-6	tert-Butylbenzene		0.17	1.0	
637-92-3	tert-Butyl Ethyl Ether (TBEE)		0.16	0.50	
75-15-0	Carbon Disulfide		1.5	5.0	
56-23-5	Carbon Tetrachloride		0.19	5.0	
108-90-7	Chlorobenzene		0.18	1.0	
124-48-1	Chlorodibromomethane		0.13	0.50	
75-00-3	Chloroethane		0.46	2.0	
67-66-3	Chloroform		0.19	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.63	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.13	0.50	
95-50-1	1,2-Dichlorobenzene		0.17	1.0	
541-73-1	1,3-Dichlorobenzene		0.15	1.0	
106-46-7	1,4-Dichlorobenzene		0.17	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.20	2.0	
75-34-3	1,1-Dichloroethane		0.15	1.0	

1 - FORM I
ANALYSIS DATA SHEET

Trip Blank

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Trip Blank Water	Laboratory ID:	24J3930-07	File ID:	E24V30407.D
Sampled:	10/25/24 00:00	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 11:17
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
107-06-2	1,2-Dichloroethane		0.13	1.0	
75-35-4	1,1-Dichloroethylene		0.18	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.20	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.16	1.0	
78-87-5	1,2-Dichloropropane		0.17	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.13	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
108-20-3	Diisopropyl Ether (DIPE)		0.17	0.50	
64-17-5	Ethanol		20	50	UJ
100-41-4	Ethylbenzene		0.14	1.0	
591-78-6	2-Hexanone (MBK)		1.3	10	
98-82-8	Isopropylbenzene (Cumene)		0.16	1.0	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.16	1.0	
79-20-9	Methyl Acetate		0.48	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.13	1.0	
75-09-2	Methylene Chloride		0.19	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.4	10	
91-20-3	Naphthalene		0.25	2.0	
103-65-1	n-Propylbenzene		0.11	1.0	
100-42-5	Styrene		0.13	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.10	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.11	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.22	5.0	UJ
120-82-1	1,2,4-Trichlorobenzene		0.19	1.0	UJ
71-55-6	1,1,1-Trichloroethane		0.14	1.0	
79-00-5	1,1,2-Trichloroethane		0.18	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.14	2.0	

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1 - FORM I
ANALYSIS DATA SHEET

Trip Blank

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Trip Blank Water	Laboratory ID:	24J3930-07	File ID:	E24V30407.D
Sampled:	10/25/24 00:00	Prepared:	10/29/24 13:11	Analyzed:	10/30/24 11:17
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B390819	Sequence:	S113119	Calibration:	2401066
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
96-18-4	1,2,3-Trichloropropane		0.27	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.16	1.0	
95-63-6	1,2,4-Trimethylbenzene		0.16	1.0	
108-67-8	1,3,5-Trimethylbenzene		0.17	1.0	
75-01-4	Vinyl Chloride		0.19	2.0	
179601-23-1	m+p Xylene		0.25	2.0	
95-47-6	o-Xylene		0.16	1.0	
1330-20-7	Xylenes (total)		1.0	1.0	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-15) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-01	File ID:	B24S306019.D
Sampled:	10/25/24 10:45	Prepared:	10/30/24 15:09	Analyzed:	11/01/24 18:43
Solids:	82.04	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B390945	Sequence:	S113227	Calibration:	2401039	Instrument:	GCMSSV2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q	
58-90-2	2,3,4,6-Tetrachlorophenol		0.055	0.80		
1912-24-9	Atrazine		0.052	0.80		
100-52-7	Benzaldehyde		0.065	0.41	V-05	UJ
92-52-4	Biphenyl		0.051	0.80		
105-60-2	Caprolactam		0.070	0.41		
83-32-9	Acenaphthene		0.039	0.20		
208-96-8	Acenaphthylene		0.037	0.20		
98-86-2	Acetophenone		0.042	0.41		
62-53-3	Aniline		0.070	0.41		
120-12-7	Anthracene		0.036	0.20		
56-55-3	Benzo(a)anthracene		0.033	0.20		
50-32-8	Benzo(a)pyrene		0.037	0.20		
205-99-2	Benzo(b)fluoranthene		0.033	0.20		
191-24-2	Benzo(g,h,i)perylene		0.058	0.20		
207-08-9	Benzo(k)fluoranthene		0.037	0.20		
111-91-1	Bis(2-chloroethoxy)methane		0.043	0.41		
111-44-4	Bis(2-chloroethyl)ether		0.058	0.41		
108-60-1	2,2'-oxybis(1-Chloropropane)		0.26	0.41		
117-81-7	Bis(2-Ethylhexyl)phthalate		0.048	0.41		
101-55-3	4-Bromophenylphenylether		0.037	0.41		
85-68-7	Butylbenzylphthalate		0.045	0.41		
86-74-8	Carbazole		0.041	0.20		
106-47-8	4-Chloroaniline		0.072	0.79	UJ	
59-50-7	4-Chloro-3-methylphenol		0.042	0.79		
91-58-7	2-Chloronaphthalene		0.036	0.41		
95-57-8	2-Chlorophenol		0.041	0.41		
7005-72-3	4-Chlorophenylphenylether		0.034	0.41		
218-01-9	Chrysene		0.036	0.20		
53-70-3	Dibenz(a,h)anthracene		0.056	0.20		

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-15) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-01	File ID:	B24S306019.D
Sampled:	10/25/24 10:45	Prepared:	10/30/24 15:09	Analyzed:	11/01/24 18:43
Solids:	82.04	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B390945	Sequence:	S113227	Calibration:	2401039	Instrument:	GCMSSV2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
132-64-9	Dibenzofuran		0.036	0.41	
84-74-2	Di-n-butylphthalate		0.15	0.41	
91-94-1	3,3-Dichlorobenzidine		0.088	0.20	
120-83-2	2,4-Dichlorophenol		0.039	0.41	
84-66-2	Diethylphthalate		0.039	0.41	
105-67-9	2,4-Dimethylphenol		0.094	0.41	
131-11-3	Dimethylphthalate		0.038	0.41	
534-52-1	4,6-Dinitro-2-methylphenol		0.32	0.41	
51-28-5	2,4-Dinitrophenol		0.31	0.79	UJ
121-14-2	2,4-Dinitrotoluene		0.041	0.41	
606-20-2	2,6-Dinitrotoluene		0.043	0.41	
117-84-0	Di-n-octylphthalate		0.057	0.41	UJ
206-44-0	Fluoranthene		0.033	0.20	
86-73-7	Fluorene		0.036	0.20	
118-74-1	Hexachlorobenzene		0.039	0.41	
87-68-3	Hexachlorobutadiene		0.037	0.41	
77-47-4	Hexachlorocyclopentadiene		0.27	0.41	
67-72-1	Hexachloroethane		0.037	0.41	
193-39-5	Indeno(1,2,3-cd)pyrene		0.066	0.20	UJ
78-59-1	Isophorone		0.043	0.41	
90-12-0	1-Methylnaphthalene		0.041	0.20	
91-57-6	2-Methylnaphthalene		0.035	0.20	
95-48-7	2-Methylphenol		0.054	0.41	
108-39-4/106-44	3/4-Methylphenol		0.053	0.41	
91-20-3	Naphthalene		0.071	0.20	
88-74-4	2-Nitroaniline		0.049	0.41	
99-09-2	3-Nitroaniline		0.084	0.41	
100-01-6	4-Nitroaniline		0.045	0.41	
98-95-3	Nitrobenzene		0.051	0.41	

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-15) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-01	File ID:	B24S306019.D
Sampled:	10/25/24 10:45	Prepared:	10/30/24 15:09	Analyzed:	11/01/24 18:43
Solids:	82.04	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B390945	Sequence:	S113227	Calibration:	2401039
				Instrument:	GCMSSV2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q	
88-75-5	2-Nitrophenol		0.040	0.41		
100-02-7	4-Nitrophenol		0.11	0.79		
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.051	0.41		
621-64-7	N-Nitrosodi-n-propylamine		0.057	0.41		
87-86-5	Pentachlorophenol		0.15	0.41		
85-01-8	Phenanthrene		0.036	0.20		
108-95-2	Phenol		0.051	0.41		
129-00-0	Pyrene		0.042	0.20		
110-86-1	Pyridine		0.047	0.41	L-04, V-34	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene		0.040	0.41		
95-95-4	2,4,5-Trichlorophenol		0.041	0.41		
88-06-2	2,4,6-Trichlorophenol		0.039	0.41		

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (20-22) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-05	File ID:	I24S305022.D
Sampled:	10/25/24 15:10	Prepared:	10/29/24 07:25	Analyzed:	10/31/24 21:05
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	97 mL / 1 mL				
Batch:	B390727	Sequence:	S113229	Calibration:	2401184
Instrument:	GCMSSV9				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
58-90-2	2,3,4,6-Tetrachlorophenol		5.8	21		
1912-24-9	Atrazine		1.7	21		
100-52-7	Benzaldehyde		0.75	10		
92-52-4	Biphenyl		0.95	21		
105-60-2	Caprolactam		0.74	10	L-04	UJ
83-32-9	Acenaphthene		0.81	5.2		
208-96-8	Acenaphthylene		0.66	5.2		
98-86-2	Acetophenone		0.52	10		
62-53-3	Aniline		9.2	21	V-05	UJ
120-12-7	Anthracene		0.56	5.2		
56-55-3	Benzo(a)anthracene		0.39	5.2		
50-32-8	Benzo(a)pyrene		0.45	5.2		
205-99-2	Benzo(b)fluoranthene		0.33	5.2		
191-24-2	Benzo(g,h,i)perylene		0.54	5.2		
207-08-9	Benzo(k)fluoranthene		0.47	5.2		
111-91-1	Bis(2-chloroethoxy)methane		0.59	10		
111-44-4	Bis(2-chloroethyl)ether		0.47	10		
108-60-1	2,2'-oxybis(1-Chloropropane)		0.77	10		
117-81-7	Bis(2-Ethylhexyl)phthalate		0.33	10		
101-55-3	4-Bromophenylphenylether		0.73	10		
85-68-7	Butylbenzylphthalate		0.41	10		
86-74-8	Carbazole		0.47	10		
106-47-8	4-Chloroaniline		5.4	10		
59-50-7	4-Chloro-3-methylphenol		0.65	10		
91-58-7	2-Chloronaphthalene		0.84	10		
95-57-8	2-Chlorophenol		0.42	10		
7005-72-3	4-Chlorophenylphenylether		0.90	10		
218-01-9	Chrysene		0.47	5.2		
53-70-3	Dibenz(a,h)anthracene		0.49	5.2	V-04	UJ

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (20-22) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-05	File ID:	I24S305022.D
Sampled:	10/25/24 15:10	Prepared:	10/29/24 07:25	Analyzed:	10/31/24 21:05
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	97 mL / 1 mL				
Batch:	B390727	Sequence:	S113229	Calibration:	2401184
Instrument:	GCMSSV9				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
132-64-9	Dibenzofuran		0.88	5.2		
84-74-2	Di-n-butylphthalate		0.52	10		
91-94-1	3,3-Dichlorobenzidine		0.47	10		
120-83-2	2,4-Dichlorophenol		0.48	10		
84-66-2	Diethylphthalate		0.57	10		
105-67-9	2,4-Dimethylphenol		0.42	10		
131-11-3	Dimethylphthalate		0.45	10		
534-52-1	4,6-Dinitro-2-methylphenol		2.4	21		
51-28-5	2,4-Dinitrophenol		1.4	10	V-04, V-05	UJ
121-14-2	2,4-Dinitrotoluene		0.36	10		
606-20-2	2,6-Dinitrotoluene		0.57	10		
117-84-0	Di-n-octylphthalate		0.34	10	V-04	UJ
206-44-0	Fluoranthene		0.58	5.2		
86-73-7	Fluorene		0.78	5.2		
118-74-1	Hexachlorobenzene		0.74	10		
87-68-3	Hexachlorobutadiene		1.3	10		
77-47-4	Hexachlorocyclopentadiene		2.9	10		
67-72-1	Hexachloroethane		1.3	10		
193-39-5	Indeno(1,2,3-cd)pyrene		0.49	5.2	V-04	UJ
78-59-1	Isophorone		0.56	10		
90-12-0	1-Methylnaphthalene		1.0	5.2		
91-57-6	2-Methylnaphthalene		0.96	5.2		
95-48-7	2-Methylphenol		0.47	10		
108-39-4/106-44	3/4-Methylphenol		0.50	10		
91-20-3	Naphthalene		0.93	5.2		
88-74-4	2-Nitroaniline		0.51	10		
99-09-2	3-Nitroaniline		0.53	10		
100-01-6	4-Nitroaniline		0.45	10		
98-95-3	Nitrobenzene		0.70	10		

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (20-22) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-05	File ID:	I24S305022.D
Sampled:	10/25/24 15:10	Prepared:	10/29/24 07:25	Analyzed:	10/31/24 21:05
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	97 mL / 1 mL				
Batch:	B390727	Sequence:	S113229	Calibration:	2401184
Instrument:	GCMSSV9				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
88-75-5	2-Nitrophenol		0.56	10		
100-02-7	4-Nitrophenol		1.3	10		
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.50	10		
621-64-7	N-Nitrosodi-n-propylamine		0.68	10		
87-86-5	Pentachlorophenol		0.50	10		
85-01-8	Phenanthrene		0.74	5.2		
108-95-2	Phenol		0.61	10		
129-00-0	Pyrene		0.47	5.2		
110-86-1	Pyridine		5.3	21	V-34	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene		1.2	10		
95-95-4	2,4,5-Trichlorophenol		0.47	10		
88-06-2	2,4,6-Trichlorophenol		0.39	10		

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-12) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-06	File ID:	I24S311006.D
Sampled:	10/25/24 15:30	Prepared:	10/30/24 08:08	Analyzed:	11/06/24 09:38
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	108.59 mL / 1 mL				
Batch:	B390878	Sequence:	S113520	Calibration:	2401184	Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
58-90-2	2,3,4,6-Tetrachlorophenol		5.2	18		
1912-24-9	Atrazine		1.5	18		
100-52-7	Benzaldehyde		0.67	9.2		
92-52-4	Biphenyl		0.85	18		
105-60-2	Caprolactam		0.66	9.2	L-04	UJ
83-32-9	Acenaphthene		0.72	4.6		
208-96-8	Acenaphthylene		0.59	4.6		
98-86-2	Acetophenone		0.46	9.2		
62-53-3	Aniline		8.2	18	V-05	UJ
120-12-7	Anthracene		0.50	4.6		
56-55-3	Benzo(a)anthracene		0.35	4.6		
50-32-8	Benzo(a)pyrene		0.40	4.6		
205-99-2	Benzo(b)fluoranthene		0.30	4.6		
191-24-2	Benzo(g,h,i)perylene		0.48	4.6		
207-08-9	Benzo(k)fluoranthene		0.42	4.6		
111-91-1	Bis(2-chloroethoxy)methane		0.53	9.2		
111-44-4	Bis(2-chloroethyl)ether		0.42	9.2		
108-60-1	2,2'-oxybis(1-Chloropropane)		0.69	9.2		
117-81-7	Bis(2-Ethylhexyl)phthalate		0.30	9.2		
101-55-3	4-Bromophenylphenylether		0.65	9.2		
85-68-7	Butylbenzylphthalate		0.36	9.2		
86-74-8	Carbazole		0.42	9.2		
106-47-8	4-Chloroaniline		4.8	9.2		
59-50-7	4-Chloro-3-methylphenol		0.58	9.2		
91-58-7	2-Chloronaphthalene		0.75	9.2		
95-57-8	2-Chlorophenol		0.38	9.2		
7005-72-3	4-Chlorophenylphenylether		0.80	9.2		
218-01-9	Chrysene		0.42	4.6		
53-70-3	Dibenz(a,h)anthracene		0.44	4.6	V-04	UJ

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-12) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-06	File ID:	I24S311006.D
Sampled:	10/25/24 15:30	Prepared:	10/30/24 08:08	Analyzed:	11/06/24 09:38
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	108.59 mL / 1 mL				
Batch:	B390878	Sequence:	S113520	Calibration:	2401184	Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
132-64-9	Dibenzofuran		0.79	4.6		
84-74-2	Di-n-butylphthalate		0.46	9.2		
91-94-1	3,3-Dichlorobenzidine		0.42	9.2		
120-83-2	2,4-Dichlorophenol		0.43	9.2		
84-66-2	Diethylphthalate		0.51	9.2		
105-67-9	2,4-Dimethylphenol		0.38	9.2		
131-11-3	Dimethylphthalate		0.40	9.2		
534-52-1	4,6-Dinitro-2-methylphenol		2.1	18		
51-28-5	2,4-Dinitrophenol		1.2	9.2	V-04, V-05	UJ
121-14-2	2,4-Dinitrotoluene		0.32	9.2		
606-20-2	2,6-Dinitrotoluene		0.51	9.2		
117-84-0	Di-n-octylphthalate		0.30	9.2	V-04	UJ
206-44-0	Fluoranthene		0.52	4.6		
86-73-7	Fluorene		0.70	4.6		
118-74-1	Hexachlorobenzene		0.66	9.2		
87-68-3	Hexachlorobutadiene		1.1	9.2		
77-47-4	Hexachlorocyclopentadiene		2.6	9.2		
67-72-1	Hexachloroethane		1.1	9.2		
193-39-5	Indeno(1,2,3-cd)pyrene		0.44	4.6	V-04	UJ
78-59-1	Isophorone		0.50	9.2		
90-12-0	1-Methylnaphthalene		0.90	4.6		
91-57-6	2-Methylnaphthalene		0.86	4.6		
95-48-7	2-Methylphenol		0.42	9.2		
108-39-4/106-44	3/4-Methylphenol		0.44	9.2		
91-20-3	Naphthalene		0.83	4.6		
88-74-4	2-Nitroaniline		0.46	9.2		
99-09-2	3-Nitroaniline		0.48	9.2		
100-01-6	4-Nitroaniline		0.40	9.2		
98-95-3	Nitrobenzene		0.62	9.2		

1 - FORM I
ANALYSIS DATA SHEET

DPT-4 (10-12) GW102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Ground Water	Laboratory ID:	24J3930-06	File ID:	I24S311006.D
Sampled:	10/25/24 15:30	Prepared:	10/30/24 08:08	Analyzed:	11/06/24 09:38
Solids:		Preparation:	SW-846 3510C	Dilution:	1
Initial/Final:	108.59 mL / 1 mL				
Batch:	B390878	Sequence:	S113520	Calibration:	2401184
				Instrument:	GCMSSV9

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q	
88-75-5	2-Nitrophenol		0.50	9.2		
100-02-7	4-Nitrophenol		1.2	9.2		
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.44	9.2		
621-64-7	N-Nitrosodi-n-propylamine		0.60	9.2		
87-86-5	Pentachlorophenol		0.44	9.2		
85-01-8	Phenanthrene		0.66	4.6		
108-95-2	Phenol		0.55	9.2		
129-00-0	Pyrene		0.42	4.6		
110-86-1	Pyridine		4.7	18	V-34	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene		1.1	9.2		
95-95-4	2,4,5-Trichlorophenol		0.42	9.2		
88-06-2	2,4,6-Trichlorophenol		0.35	9.2		

1 - FORM I
ANALYSIS DATA SHEET

MW-4 (26-29) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-02	File ID:	F24S317011.D
Sampled:	10/25/24 13:35	Prepared:	10/30/24 10:45	Analyzed:	11/12/24 11:20
Solids:	86.31	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20.1 g / 1 mL				
Batch:	B390901	Sequence:	S113831	Calibration:	2401159
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q	
123-91-1	1,4-Dioxane		0.045	0.058	R-05	UJ

1 - FORM I
ANALYSIS DATA SHEET

MW-4 (26-29) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-02RE1	File ID:	24J3930-02RE1.d
Sampled:	10/25/24 13:35	Prepared:	11/26/24 00:18	Analyzed:	11/27/24 09:43
Solids:	86.31	Preparation:	EPA 1633	Dilution:	1
Initial/Final:	5.806 g / 4 mL				
Batch:	B393181	Sequence:	S114648	Calibration:	2401284
				Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.27	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.13	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.082	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.083	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)		0.069	0.20	
375-95-1	Perfluorononanoic acid (PFNA)		0.075	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)		0.063	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.082	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.075	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.063	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.068	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.064	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.064	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.075	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.10	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.060	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.050	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.065	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.058	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.30	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6		0.29	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.37	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.081	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.055	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.089	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.10	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.092	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.64	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.71	2.0	

1 - FORM I
ANALYSIS DATA SHEET

MW-4 (26-29) 102524

Laboratory:	Pace New England			Work Order:	24J3930
Client:	NYDEC_Arcadis US, Inc. - Clifton P			Project:	Former Commander Oil Terminal Off_Site - CO 1
Matrix:	Soil	Laboratory ID:	24J3930-02RE1	File ID:	24J3930-02RE1.d
Sampled:	10/25/24 13:35	Prepared:	11/26/24 00:18	Analyzed:	11/27/24 09:43
Solids:	86.31	Preparation:	EPA 1633	Dilution:	1
Initial/Final:	5.806 g / 4 mL				
Batch:	B393181	Sequence:	S114648	Calibration:	2401284
				Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.34	0.80	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.32	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.23	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.27	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.49	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.5	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.6	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.14	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.092	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.12	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.24	0.40	

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, Polyfluoroalkyl Substances (PFAS) Method 1633,ICP Metals (6010D), Mercury(7470A), Cyanide (9014)
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24K0186
SAMPLING DATE(S):	October 28,29, 2024

SAMPLES:

Client Sample ID	Laboratory ID	SOIL	WATER	VOC
MW-4(5-6.5)102824	24K0186-01	X		
EB102824	24K0186-02		X	
EB102924	24K0186-03		X	
DUP(SS)102924	24K0186-04	X		X
DPT-2(SS)102924	24K0186-05	X		X
DPT-1(SS)102924	24K0186-06	X		X
MW-1(SS)102924	24K0186-07	X		X
TRIP BLANK102924	24K0186-08		X	X
SDMT-3(0.5-1)102924	24K0186-09	X		X
SDMT-3(1-2)102924	24K0186-10	X		X
SW-1-102924	24K0186-11		X	X
SW-2-102924	24K0186-12		X	X
SDMT-1(0.5-1)102924	24K0186-13	X		X
SDMT-1(1-2)102924	24K0186-14	X		X
SDMT-2(0.5-1)102924	24K0186-15	X		X

Client Sample ID	Laboratory ID	SOIL	WATER	VOC
SDMT-2(1-2)102924	24K0186-16	X		X
WC-102924	24K0186-17	X		X
SW-3-102924	24K0186-18		X	X
DUP(SW)102924	24K0186-19		X	X
MW-1(SS)102924MS	24K0186-07MS	X		X
MW-1(SS)102924MSD	24K0186-07MSD	X		X
SW-2-102924MS	24K0186-12MS		X	X
SW-2-102924MSD	24K0186-12MSD		X	X

Client Sample ID	Laboratory ID	SVOC	1,4-DIOXANE	PFAS
MW-4(5-6.5)102824	24K0186-01			
EB102824	24K0186-02			X
EB102924	24K0186-03			X
DUP(SS)102924	24K0186-04	X	X	X
DPT-2(SS)102924	24K0186-05	X	X	X
DPT-1(SS)102924	24K0186-06	X	X	X
MW-1(SS)102924	24K0186-07	X	X	
TRIP BLANK102924	24K0186-08	X	X	
SDMT-3(0.5-1)102924	24K0186-09	X	X	X
SDMT-3(1-2)102924	24K0186-10	X	X	X
SW-1-102924	24K0186-11	X	X	X
SW-2-102924	24K0186-12	X	X	X
SDMT-1(0.5-1)102924	24K0186-13	X	X	X
SDMT-1(1-2)102924	24K0186-14	X	X	X
SDMT-2(0.5-1)102924	24K0186-15	X	X	X
SDMT-2(1-2)102924	24K0186-16	X	X	X
WC-102924	24K0186-17	X	X	
SW-3-102924	24K0186-18	X	X	X
DUP(SW)102924	24K0186-19	X	X	X
MW-1(SS)102924MS	24K0186-07MS	X	X	
MW-1(SS)102924MSD	24K0186-07MSD	X	X	
SW-2-102924MS	24K0186-12MS	X	X	X
SW-2-102924MSD	24K0186-12MSD	X	X	X

Client Sample ID	Laboratory ID	PESTICIDES	PCBS	HERBICIDES
MW-4(5-6.5)102824	24K0186-01	X	X	X
EB102824	24K0186-02			
EB102924	24K0186-03			
DUP(SS)102924	24K0186-04	X	X	X
DPT-2(SS)102924	24K0186-05	X	X	X
DPT-1(SS)102924	24K0186-06	X	X	X
MW-1(SS)102924	24K0186-07	X	X	X
TRIP BLANK102924	24K0186-08			

Client Sample ID	Laboratory ID	PESTICIDES	PCBS	HERBICIDES
SDMT-3(0.5-1)102924	24K0186-09	X	X	X
SDMT-3(1-2)102924	24K0186-10	X	X	X
SW-1-102924	24K0186-11			
SW-2-102924	24K0186-12			
SDMT-1(0.5-1)102924	24K0186-13	X	X	X
SDMT-1(1-2)102924	24K0186-14	X	X	X
SDMT-2(0.5-1)102924	24K0186-15	X	X	X
SDMT-2(1-2)102924	24K0186-16	X	X	X
WC-102924	24K0186-17	X	X	X
SW-3-102924	24K0186-18			
DUP(SW)102924	24K0186-19			
MW-1(SS)102924MS	24K0186-07MS	X	X	X
MW-1(SS)102924MSD	24K0186-07MSD	X	X	X

Client Sample ID	Laboratory ID	METALS	MERCURY	CYANIDE
MW-4(5-6.5)102824	24K0186-01	X	X	X
EB102824	24K0186-02			
EB102924	24K0186-03			
DUP(SS)102924	24K0186-04	X	X	X
DPT-2(SS)102924	24K0186-05	X	X	X
DPT-1(SS)102924	24K0186-06	X	X	X
MW-1(SS)102924	24K0186-07	X	X	X
TRIP BLANK102924	24K0186-08			
SDMT-3(0.5-1)102924	24K0186-09	X	X	X
SDMT-3(1-2)102924	24K0186-10	X	X	X
SW-1-102924	24K0186-11	X	X	X
SW-2-102924	24K0186-12	X	X	X
SDMT-1(0.5-1)102924	24K0186-13	X	X	X
SDMT-1(1-2)102924	24K0186-14	X	X	X
SDMT-2(0.5-1)102924	24K0186-15	X	X	X
SDMT-2(1-2)102924	24K0186-16	X	X	X
WC-102924	24K0186-17	X	X	
SW-3-102924	24K0186-18	X	X	X
DUP(SW)102924	24K0186-19	X	X	X
MW-1(SS)102924MS	24K0186-07MS	X	X	X
MW-1(SS)102924MSD	24K0186-07MSD	X	X	X
SW-2-102924MS	24K0186-12MS	X	X	X
SW-2-102924MSD	24K0186-12MSD	X	X	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24K0186

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with some exceptions which resulted in the rejection of data (see section IX.).

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

The ICV analyzed 10/4/24 at 10:30 had the following outliers.

Analyte	% Difference	QC Limit
Ethanol	78.0%	30%
Iodomethane	33.8%	30%

Results for these analytes were flagged as estimated in the affected samples; positive results (J) and negative results (UJ).

Continuing Calibration:

The CCV analyzed 11/5/2024 at 05:43 had the following outliers

Analyte	% Difference	QC Limit
Ethanol	58.5%	20%

The CCV analyzed 11/6/2024 at 08:54 had the following outliers

Analyte	% Difference	QC Limit
Acetone	21.0%	20%
Benzene	21.3%	20%
Carbon Tetrachloride	21.8%	20%
Dichlorodifluoromethane	29.8%	20%

Results for these analytes were flagged as estimated for the affected samples; Positive results (J) and negative results (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There was one trip blank analyzed as part of this SDG. There were no target analytes detected in the trip blank. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There were two Laboratory Control Sample analyzed as part of this SDG. The following outliers were identified.

Batch B391458

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Acetone		67.4%	70-160%

Batch B391462

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Acetone		67.4%	70-130%

These analytes were flagged as estimated for the affected samples; positive results (J+) and negative results (UJ)

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Sample MW-1(SS)102924 was analyzed as the soil batch MS/MSD for this SDG. The following outliers were identified.

Analyte	MS% Recovery	MSD% Recovery	QC Limits
Bromomethane	65.3%	56.7%	70-130%
n-Butylbenzene	68.6%	69.1%	70-130%
Carbon Disulfide	0%	0%	70-130%
Chloroethane	62.6%	59.7%	70-130%
Chloromethane	44.2%	40.1%	70-130%
Cyclohexane	63.9%	61.0%	70-130%
Dichlorodifluoromethane	50.2%	45.2%	70-130%
Trans-1,2-Dichloroethylene	69.5%	65.6%	70-130%
Ethanol	0%	0%	70-130%
Methyl Cyclohexane	60.7%	60.0%	70-130%
Naphthalene	62.3%	57.2%	70-130%
1,2,3-Trichlorobenzene	61.1%	58.7%	70-130%
1,2,4-Trichlorobenzene	63.1%	62.0%	70-130%
Vinyl Chloride	50.1%	47.7%	70-130%
1,1-Dichloroethylene		64.9%	70-130%
Trichlorofluoromethane		69.8%	70-130%

Sample SW-2-102924 was analyzed as the water batch MS/MSD for this SDG. The following outliers were identified

Analyte	MS% Recovery	MSD% Recovery	QC Limits
Acetone	54.7%	59.4%	70-130%
Ethanol	67.1%	65.1%	70-130%
Methyl Acetate	65.5%		70-130%
Tetrachloroethylene		134%	70-130%

Results for these analytes were flagged as estimated. For analytes that recovered above QC Limits positive results were flagged as estimated biased high (J+). For analytes that recovered below QC limits positive results were flagged as estimated biased low (J-) and negative results (UJ). Negative results for analytes that recovered below 20% were flagged as rejected (R).

X.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

There were no calculable results detected in these samples. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with some exceptions which resulted in the rejection of data (see section IX.).

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The following analytes had a % RSD above the QC Limits.

Analyte	%RSD	QC Limit
Dibenz(a,h)anthracene	21.3%	15%
2,4-Dinitrophenol	37.1%	15%
Di-n-Octylphthalate	21.9%	15%
Indeno(1,2,3-cd)pyrene	20.4%	15%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Initial Calibration Verification:

The ICV analyzed 9/24/24 at 13:38 had the following outliers

Analyte	% Difference	QC Limit
Pyridine	42.3%	30%
4-chloroaniline	34.5%	30%

The ICV analyzed 10/30/24 at 12:21 had the following outliers

Analyte	% Difference	QC Limit
Pyridine	37.0%	30%

Results for this analyte were flagged as estimated; positive results (J) and negative results (UJ)

Continuing Calibration:

The CCV analyzed 11/7/2024 at 11:49 had the following outliers

Analyte	% Difference	QC Limit
Aniline	32.5%	20%
2,4-Dinitrophenol	25.9%	20%

The CCV analyzed 11/11/2024 at 09:24 had the following outlier

Analyte	% Difference	QC Limit
Benzaldehyde	33.1%	20%

The CCV analyzed 11/12/2024 at 09:19 had the following outliers

Analyte	% Difference	QC Limit
Benzaldehyde	32.2%	20%

The CCV analyzed 11/14/2024 at 08:59 had the following outliers

Analyte	% Difference	QC Limit
Aniline	34.9%	20%
Pyrene	22.2%	20%
Pyridine	20.3%	20%

Results for these analytes were flagged as estimated for the affected samples; positive results (J) and negative results (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There were two Laboratory Control Sample/Duplicates analyzed as part of this SDG. The following outliers were identified for the soil LCS/LCSD.

Analyte	LCS	LCSD	QC Limits
Pyridine	26.4%	26.6%	40-140%

The following outliers were identified for the water LCS/LCSD.

Analyte	LCS	LCSD	QC Limits
Caprolactam	26.2%	26.6%	40-140%
2,4-Dinitrophenol	21.4%		30-130%
Hexachloroethane	36.7%		40-140%

Results for these analyes were flagged as estimated for the affected samples; positive results (J-) and negative results (UJ).

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD)

There were two sets of MS/MSDs analyzed as part of this SDG

MW-1(SS)102924 was used as the MS/MSD for the soil samples. The following outliers were identified.

Analyte	MS% R	MSD% R	QC Limits	RPD	QC Limit
4-Chloroaniline	36.4%		40-150%		
3,3'-Dichlorobenzidine	13.0%	20.1%	40-150%	42.9%	30%
Hexachlorocyclopentadiene	2.64%	4.92%	30-130%		
Pyridine	12.8%	13.9%	40-140%		
Benzo(a)anthracene				31.9%	30%
Benzo(b)fluoranthene				35.4%	30%
Benzo(g,h,i)perylene				33.5%	30%
Chrysene				33.9%	30%
Benzo(a)pyrene				34.8%	30%
Fluoranthene				54.8%	30%
Indeno(1,2,3-cd)pyrene				35.2%	30%
Phenanthrene				44.2%	30%
Pyrene				50.4%	30%

SW-2-102924 was used as the MS/MSD for the water samples. The following outliers were identified.

Analyte	MS% R	MSD% R	QC Limits	RPD	QC Limit
2,3,4,6-Tetrachlorophenol	10.5%	32.9%	40-140%	106%	30%
Caprolactam	22.7%	23.4%	40-140%		
4,6-Dinitro-2-methylphenol	25.2%		30-130%		
2,4-Dinitrophenol	0.95%	4.02%	30-130%		
Hexachloroethane	39.6%	32.5%	40-140%		
2-Nitrophenol	28.2%		30-130%	48.4%	30%
4-Nitrophenol	4.95%	11.0%	30-130%	78.9%	30%
Pentachlorophenol	5.39%	17.6%	30-130%	109%	30%
Phenol	26.1%		30-130%		
Pyridine	20.0%	18.6%	40-140%		
2,4,5-Trichlorophenol	24.5%		30-130%	70.6%	30%
2,4,6-Trichlorophenol	17.1%		30-130%	79.5%	30%
Hexachlorobutadiene		42.2%	30-130%		
2,4-Dichlorophenol		36.8%	40-140%	42.2%	30%

Positive results for analytes that only had RPDs above QC limits were flagged as estimated (J). Positive results for analytes that recovered below acceptance limits were flagged as estimated, biased low (J-). Negative results for analytes that were above 20% R but below QC Limits were flagged as estimated (UJ). Negative results for analytes that recovered below 20% were flagged as rejected (R).

X.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

There were no calculable results detected in these samples. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There were two Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

MW-1(SS)102924 was used as the MS/MSD for the soil samples. SW-2-102924 was used as the MS/MSD for the water samples. All analytes recovered within QC Limits. No data qualification was necessary.

X.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

There were no calculable results detected in these samples. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

PFAS

I.) General

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data

The overall assessment of data was acceptable.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) LC-MS Tuning:

All LC-MS Tuning criteria were met. All mass calibration criteria were met. No data qualification was necessary.

V.) Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VIII.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

Equipment Blanks:

There were two equipment blanks analyzed as part of this SDG. There were no target analytes detected in either equipment blank. No data qualification was necessary

IX.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria with the following exceptions.

Sample ID	Analyte	%Recovery	QC Limits
SW-3-102924	13C2 4:2 FTS	32.0%	40-200%
	13C2 8:2 FTS	39.1%	40-300%
	D3-NMeFOSAA	29.0%	40-170%

No data qualification was necessary.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

An LLLCS, LCS, and LCSD were prepared and analyzed for the soil and water preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

The following outliers were identified

Analyte	Sample ID	Sample ID	RPD	QC Limit
PFDA	SW-2-102924	DUP(SW)102924	43%	30%
PFOS	SW-2-102924	DUP(SW)102924	54%	30%

Results for these analyyes were flagged as estimated for the affected samples.

XII.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XIII.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XIV.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XV.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XVI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

XVII.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

PESTICIDES

SUMMARY

I.) General:

The analyses for Pesticides were performed by GC according to SW 846 Method 8081B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The CCV analyzed 11/18/24 at 21:42 had the following outlier

Analyte	% Difference	QC Limits
Toxaphene	25.0%	20%

The CCV analyzed 11/23/24 at 17:47 had the following outlier

Analyte	% Difference	QC Limits
d-BHC	21.8%	20%

The CCV analyzed 11/24/24 at 02:17 had the following outlier

Analyte	% Difference	QC Limits
Toxaphene	30.9%	20%

The CCV analyzed 11/24/24 at 02:41 had the following outlier

Analyte	% Difference	QC Limits
4,4'-DDD	32.4%	20%
4,4'-DDT	49.4%	20%
Methoxychlor	42.5%	20%

All results for these analytes were flagged as estimated for the affected samples; positive results (J) and negative results (UJ).

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There were two Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MW-1(SS)102924 was used as the MS/MSD for the soil samples. SW-2-102924 was used as the MS/MSD for the water samples. All analytes recovered within QC Limits. No data qualification was necessary.

VIII.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

There were no calculable results in either sample. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

PCBs

SUMMARY

I.) General:

The analyses for PCBs were performed by GC according to SW 846 Method 8082A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There were two Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MW-1(SS)102924 was used as the MS/MSD for the soil samples. SW-2-102924 was used as the MS/MSD for the water samples. All analytes recovered within QC Limits. No data qualification was necessary.

VIII.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

All calculable results met precision criteria. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

HERBICIDES

SUMMARY

I.) General:

The analyses for herbicides were performed by GC according to SW 846 Method 8151.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The CCV analyzed 11/10/24 at 11:25 had the following outliers

Analyte	% Difference	QC limit
MCPA	17%	20%
Dichlorprop	15.4%	20%
2,4-D	22.9%	20%

These analytes were flagged as estimated; positive results (J) and negative results (UJ)

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

There were two Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MW-1(SS)102924 was used as the MS/MSD for the soil samples. SW-2-102924 was used as the MS/MSD for the water samples. The RPD for Dalapon (38%) was outside the QC Limit of 30%. Positive results for this analyte were flagged as estimated (J).

VIII.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

All calculable results met precision criteria. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

METALS

SUMMARY

I.) General:

The analyses for Metals were performed by Inductively Coupled Plasma (ICP) according to SW-846 Method 6010B

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no detections in the blanks associated with the samples for this SDG. No action was required

IV.) ICP Interference Check Sample Results:

All Interference Percent Recovery criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

Serial Dilution analysis was performed on sample MW-1. All Serial Dilution Analysis criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

MW-1(SS)102924 was used as the MS/MSD for the soil samples. The following outliers were identified

Analyte	MS % Recovery	MSD % Recovery	QC Limits
Antimony	30.1%	29.5%	75-125%
Copper	155%		75-125%
Aluminum*	6210%	6190%	75-125%
Manganese*	154%	287%	75-125%
Iron*	1240%	639%	75-125%
Potassium*	132%	135%	75-125%
Calcium*	-4510%	1880%	75-125%
Magnesium*	-2970%	704%	75-125%

SW-2-102924 was used as the MS/MSD for the water samples. The following outliers were identified.

Analyte	MS % Recovery	MSD % Recovery	QC Limits
Potassium*	129%		75-125%
Calcium*	154%		75-125%
Magnesium*	171%		75-125%
Sodium*	235%	-400%	75-125%

Analytes noted with * were present in the parent sample at a level greater than 4X the spike amount and no further action is necessary. The post digestion spike was within limits for Sb and Cu. Positive results for Cu were flagged as estimated (J) for the affected samples. All results for Sb were flagged as estimated for the affected samples; positive results (J) and negative results (UJ).

VIII.) Post Digestion Spike:

Two post digestion spikes were analyzed using the same parent samples as the MS/MSD. All results were within QC Limits. See section VII for action taken.

IX.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

All calculable results met precision criteria. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

MERCURY

SUMMARY

I.) General:

The analyses for Mercury were performed according to SW-846 Method 7470A

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no target analytes detected in any blanks. No further action was required.

V.) Serial Dilution Analysis:

There was no serial dilution analysis performed for this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

MW-1(SS)102924 was used as the MS/MSD for the soil samples. SW-2-102924 was used as the MS/MSD for the water samples. All analytes recovered within QC Limits. No data qualification was necessary.

VIII.) Post Digestion Spike:

There was no post digestion spike analyzed with this SDG. No further action was required.

IX.) Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

There were no calculable results detected in these samples. No data qualification was necessary.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

CYANIDE

SUMMARY

I.) General:

The analyses for Cyanide were performed per Method 9014.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

All calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There was no detection reported in the associated method blank. No data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

MW-1(SS)102924 was used as the MS/MSD for the soil samples. SW-2-102924 was used as the MS/MSD for the water samples. All analytes recovered within QC Limits. No data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Lab Duplicates:

There were one set of lab duplicates analyzed for this fraction of the SDG. All calculable results met precision criteria. No data qualification was necessary.

Field Duplicates:

There were two sets of field duplicates associated with this SDG.

MW-1(SS)/DUP(SS)102924
SW-2-102924/DUP(SW)102924

There were no calculable results detected in these samples. No data qualification was necessary.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824 | Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.11	0.050	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
gamma-Chlordane [1]	ND	0.11	0.047	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Aldrin [1]	ND	0.11	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
alpha-BHC [1]	ND	0.11	0.051	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
beta-BHC [1]	ND	0.11	0.057	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
delta-BHC [1]	ND	0.11	0.057	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
gamma-BHC (Lindane) [1]	ND	0.043	0.015	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
4,4'-DDD [2]	ND	0.086	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
4,4'-DDE [1]	ND	0.086	0.0095	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
4,4'-DDT [2]	ND	0.086	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Dieldrin [1]	ND	0.086	0.010	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endosulfan I [1]	ND	0.11	0.052	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endosulfan II [1]	ND	0.17	0.046	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endosulfan sulfate [1]	ND	0.17	0.042	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endrin [1]	ND	0.17	0.055	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endrin aldehyde [1]	ND	0.17	0.043	mg/Kg dry	20		SW-846 8081B	11/11/24	11/23/24 22:10	TG
Endrin ketone [1]	ND	0.17	0.044	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Heptachlor [1]	ND	0.11	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Heptachlor epoxide [1]	ND	0.11	0.013	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Methoxychlor [1]	ND	1.1	0.13	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Toxaphene [1]	ND	2.2	0.90	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		11/26/24 1:12
Decachlorobiphenyl [1]	93.3	30-150		11/23/24 22:10
Decachlorobiphenyl [2]	95.3	30-150		11/26/24 1:12
Decachlorobiphenyl [2]	94.3	30-150		11/23/24 22:10
Tetrachloro-m-xylene [1]	72.7	30-150		11/23/24 22:10
Tetrachloro-m-xylene [1]	80.0	30-150		11/26/24 1:12
Tetrachloro-m-xylene [2]	106	30-150		11/23/24 22:10
Tetrachloro-m-xylene [2]	65.9	30-150		11/26/24 1:12

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824 | Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1221 [1]	ND	0.088	0.041	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1232 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1242 [1]	ND	0.088	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1248 [1]	ND	0.088	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1254 [2]	ND	0.088	0.033	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1260 [1]	ND	0.088	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1262 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1268 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		11/17/24 14:56
Decachlorobiphenyl [2]	65.2	30-150		11/17/24 14:56
Tetrachloro-m-xylene [1]	72.7	30-150		11/17/24 14:56
Tetrachloro-m-xylene [2]	75.4	30-150		11/17/24 14:56

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824
Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Arsenic	5.8	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Barium	26	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Beryllium	0.24	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Cadmium	0.22	0.36	0.17	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Calcium	13000	18	9.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Chromium	15	0.72	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Cobalt	4.0	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Copper	57	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Iron	12000	18	8.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Lead	67	0.54	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Magnesium	4500	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Manganese	190	0.36	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Mercury	0.10	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/21/24	11/22/24 15:23	AAJ
Nickel	7.8	0.72	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Potassium	780	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:41	HNN
Selenium	ND	3.6	0.90	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:41	HNN
Sodium	470	180	54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Thallium	ND	1.8	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Vanadium	21	0.72	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Zinc	72	0.72	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824 | Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102824 | Sampled: 10/28/2024 14:20

Sample ID: 24K0186-02

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.6	0.83	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.46	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorooctanoic acid (PFOA)	ND	1.6	0.43	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorononanoic acid (PFNA)	ND	1.6	0.67	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	0.40	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.53	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.36	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.36	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.64	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.87	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	0.41	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.74	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.6	1.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.6	3.1	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.6	3.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.57	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.67	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.6	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.6	0.88	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.6	0.96	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.6	1.7	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.2	2.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.2	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102824 | Sampled: 10/28/2024 14:20

Sample ID: 24K0186-02

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.3	0.44	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	86.5	5-130		11/22/24 15:27
13C5-PFPeA	87.2	40-130		11/22/24 15:27
13C5-PFHxA	86.3	40-130		11/22/24 15:27
13C4-PFHpA	83.0	40-130		11/22/24 15:27
13C8-PFOA	90.3	40-130		11/22/24 15:27
13C9-PFNA	89.1	40-130		11/22/24 15:27
13C6-PFDA	94.5	40-130		11/22/24 15:27
13C7-PFUnA	92.7	30-130		11/22/24 15:27
13C2-PFDoA	84.2	10-130		11/22/24 15:27
13C2-PFTeDA	83.9	10-130		11/22/24 15:27
13C3-PFBS	86.0	40-135		11/22/24 15:27
13C3-PFHxS	82.3	40-130		11/22/24 15:27
13C8-PFOS	82.6	40-130		11/22/24 15:27
13C2-4:2FTS	89.7	40-200		11/22/24 15:27
13C2-6:2FTS	80.7	40-200		11/22/24 15:27
13C2-8:2FTS	90.1	40-300		11/22/24 15:27
13C8-PFOSA	83.9	40-130		11/22/24 15:27
D3-NMeFOSA	78.4	10-130		11/22/24 15:27
D5-NEtFOSA	77.2	10-130		11/22/24 15:27
D3-NMeFOSAA	83.5	40-170		11/22/24 15:27
D5-NEtFOSAA	91.5	25-135		11/22/24 15:27
D7-NMeFOSE	81.6	10-130		11/22/24 15:27
D9-NEtFOSE	80.1	10-130		11/22/24 15:27
13C3-HFPO-DA	94.3	40-130		11/22/24 15:27

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102924 | Sampled: 10/29/2024 07:40

Sample ID: 24K0186-03

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.8	0.85	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.47	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorooctanoic acid (PFOA)	ND	1.7	0.44	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorononanoic acid (PFNA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorodecanoic acid (PFDA)	ND	1.7	0.41	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.51	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.37	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.66	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.90	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.42	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.54	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.77	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.8	1.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.8	3.2	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.8	3.5	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.59	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.8	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.8	0.90	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.8	1.0	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.8	1.8	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.5	2.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	7.5	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	43	9.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.61	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.49	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102924 | Sampled: 10/29/2024 07:40

Sample ID: 24K0186-03

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.4	0.46	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	88.7	5-130		11/22/24 15:37
13C5-PFPeA	88.7	40-130		11/22/24 15:37
13C5-PFHxA	90.1	40-130		11/22/24 15:37
13C4-PFHpA	86.4	40-130		11/22/24 15:37
13C8-PFOA	91.6	40-130		11/22/24 15:37
13C9-PFNA	87.4	40-130		11/22/24 15:37
13C6-PFDA	87.3	40-130		11/22/24 15:37
13C7-PFUnA	97.1	30-130		11/22/24 15:37
13C2-PFDoA	86.3	10-130		11/22/24 15:37
13C2-PFTeDA	79.6	10-130		11/22/24 15:37
13C3-PFBS	86.5	40-135		11/22/24 15:37
13C3-PFHxS	89.1	40-130		11/22/24 15:37
13C8-PFOS	90.0	40-130		11/22/24 15:37
13C2-4:2FTS	92.7	40-200		11/22/24 15:37
13C2-6:2FTS	83.6	40-200		11/22/24 15:37
13C2-8:2FTS	88.4	40-300		11/22/24 15:37
13C8-PFOSA	87.9	40-130		11/22/24 15:37
D3-NMeFOSA	75.2	10-130		11/22/24 15:37
D5-NEtFOSA	77.4	10-130		11/22/24 15:37
D3-NMeFOSAA	87.4	40-170		11/22/24 15:37
D5-NEtFOSAA	92.7	25-135		11/22/24 15:37
D7-NMeFOSE	87.1	10-130		11/22/24 15:37
D9-NEtFOSE	82.5	10-130		11/22/24 15:37
13C3-HFPO-DA	94.6	40-130		11/22/24 15:37

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00098	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Benzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromochloromethane	ND	0.0020	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromodichloromethane	ND	0.0020	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromoform	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
2-Butanone (MEK)	ND	0.039	0.0083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Butyl Alcohol (TBA)	ND	0.098	0.040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
sec-Butylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00098	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Carbon Disulfide	ND	0.020	0.0099	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Carbon Tetrachloride	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chlorobenzene	ND	0.0020	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chlorodibromomethane	ND	0.00098	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chloroform	ND	0.0039	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chloromethane	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Cyclohexane	ND	0.0098	0.0040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0039	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1-Dichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dichloroethane	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1-Dichloroethylene	ND	0.0039	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dichloropropane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Diisopropyl Ether (DIPE)	ND	0.00098	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Ethanol	ND	0.20	0.039	mg/Kg dry	1	V-05 UJ	SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Ethylbenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
2-Hexanone (MBK)	ND	0.020	0.0067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Methyl Cyclohexane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Methylene Chloride	ND	0.020	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Naphthalene	ND	0.0039	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
n-Propylbenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Styrene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Tetrachloroethylene	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Toluene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Trichloroethylene	ND	0.0020	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Vinyl Chloride	ND	0.0098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
m+p Xylene	ND	0.0039	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
o-Xylene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/5/24 8:20
Toluene-d8	98.6	70-130		11/5/24 8:20
4-Bromofluorobenzene	96.6	70-130		11/5/24 8:20

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Atrazine	ND	1.4	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzaldehyde	ND	0.72	0.11	mg/Kg dry	2	V-05 UJ	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Biphenyl	ND	1.4	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Caprolactam	ND	0.72	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Acenaphthene	ND	0.36	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Acenaphthylene	ND	0.36	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Acetophenone	ND	0.72	0.075	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Aniline	ND	0.72	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Anthracene	ND	0.36	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(a)anthracene	0.10	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(a)pyrene	0.14	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(b)fluoranthene	0.21	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(g,h,i)perylene	0.11	0.36	0.10	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(k)fluoranthene	0.080	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Bis(2-chloroethoxy)methane	ND	0.72	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Bis(2-chloroethyl)ether	ND	0.72	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.72	0.45	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Bis(2-Ethylhexyl)phthalate	0.14	0.72	0.085	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Bromophenylphenylether	ND	0.72	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Butylbenzylphthalate	ND	0.72	0.080	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Carbazole	ND	0.36	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Chloroaniline	ND	1.4	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Chloro-3-methylphenol	ND	1.4	0.075	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Chloronaphthalene	ND	0.72	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Chlorophenol	ND	0.72	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Chlorophenylphenylether	ND	0.72	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Chrysene	0.14	0.36	0.064	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Dibenz(a,h)anthracene	ND	0.36	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Dibenzofuran	ND	0.72	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Di-n-butylphthalate	ND	0.72	0.27	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
3,3-Dichlorobenzidine	ND	0.36	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dichlorophenol	ND	0.72	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Diethylphthalate	ND	0.72	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dimethylphenol	ND	0.72	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Dimethylphthalate	ND	0.72	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4,6-Dinitro-2-methylphenol	ND	0.72	0.57	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dinitrophenol	ND	1.4	0.55	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dinitrotoluene	ND	0.72	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,6-Dinitrotoluene	ND	0.72	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Di-n-octylphthalate	ND	0.72	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Fluoranthene	0.22	0.36	0.059	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Fluorene	ND	0.36	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Hexachlorobenzene	ND	0.72	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.72	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Hexachlorocyclopentadiene	ND	0.72	0.47	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Hexachloroethane	ND	0.72	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Indeno(1,2,3-cd)pyrene	ND	0.36	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Isophorone	ND	0.72	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
1-Methylnaphthalene	ND	0.36	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Methylnaphthalene	ND	0.36	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Methylphenol	0.14	0.72	0.096	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
3/4-Methylphenol	ND	0.72	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Naphthalene	ND	0.36	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Nitroaniline	ND	0.72	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
3-Nitroaniline	ND	0.72	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Nitroaniline	ND	0.72	0.080	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Nitrobenzene	ND	0.72	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Nitrophenol	ND	0.72	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Nitrophenol	ND	1.4	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.72	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
N-Nitrosodi-n-propylamine	ND	0.72	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Pentachlorophenol	ND	0.72	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Phenanthrene	0.090	0.36	0.064	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Phenol	0.30	0.72	0.091	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Pyrene	0.19	0.36	0.075	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Pyridine	ND	0.72	0.084	mg/Kg dry	2	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.72	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4,5-Trichlorophenol	ND	0.72	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4,6-Trichlorophenol	ND	0.72	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.3	30-130		11/11/24 18:50
Phenol-d6	58.1	30-130		11/11/24 18:50
Nitrobenzene-d5	59.5	30-130		11/11/24 18:50
2-Fluorobiphenyl	51.7	30-130		11/11/24 18:50
2,4,6-Tribromophenol	61.3	30-130		11/11/24 18:50
p-Terphenyl-d14	55.8	30-130		11/11/24 18:50

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.054	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 18:18	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	38.6	15-110			11/15/24 18:18

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorodecanoic acid (PFDA)	0.12	0.20	0.063	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoroundecanoic acid (PFUnA)	0.11	0.20	0.082	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorododecanoic acid (PFDoA)	0.23	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorotridecanoic acid (PFTrDA)	0.11	0.20	0.063	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorotetradecanoic acid (PFTeDA)	0.13	0.20	0.067	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorooctanesulfonic acid (PFOS)	0.29	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	94.5	8-130		12/4/24 0:39
13C5-PFPeA	98.4	35-130		12/4/24 0:39
13C5-PFHxA	96.3	40-130		12/4/24 0:39
13C4-PFHpA	96.2	40-130		12/4/24 0:39
13C8-PFOA	95.9	40-130		12/4/24 0:39
13C9-PFNA	96.6	40-130		12/4/24 0:39
13C6-PFDA	97.8	40-130		12/4/24 0:39
13C7-PFUnA	106	40-130		12/4/24 0:39
13C2-PFDoA	100	40-130		12/4/24 0:39
13C2-PFTeDA	109	20-130		12/4/24 0:39
13C3-PFBS	94.5	40-135		12/4/24 0:39
13C3-PFHxS	96.4	40-130		12/4/24 0:39
13C8-PFOS	96.6	40-130		12/4/24 0:39
13C2-4:2FTS	109	40-165		12/4/24 0:39
13C2-6:2FTS	116	40-215		12/4/24 0:39
13C2-8:2FTS	138	40-275		12/4/24 0:39
13C8-PFOSA	86.3	40-130		12/4/24 0:39
D3-NMeFOSA	79.7	10-130		12/4/24 0:39
D5-NEtFOSA	78.0	10-130		12/4/24 0:39
D3-NMeFOSAA	93.9	40-135		12/4/24 0:39
D5-NEtFOSAA	99.0	40-150		12/4/24 0:39
D7-NMeFOSE	89.1	20-130		12/4/24 0:39
D9-NEtFOSE	90.1	15-130		12/4/24 0:39
13C3-HFPO-DA	101	40-130		12/4/24 0:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.028	0.052	0.020	mg/Kg dry	10	P-02, J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
gamma-Chlordane [2]	0.024	0.052	0.022	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
Aldrin [1]	ND	0.052	0.0051	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
alpha-BHC [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
beta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
delta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
gamma-BHC (Lindane) [1]	ND	0.021	0.0072	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
4,4'-DDD [2]	ND	0.042	0.0058	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
4,4'-DDE [1]	0.025	0.042	0.0046	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
4,4'-DDT [1]	0.060	0.042	0.0054	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Dieldrin [1]	0.018	0.042	0.0050	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endosulfan I [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endosulfan II [1]	ND	0.083	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endosulfan sulfate [1]	ND	0.083	0.020	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endrin [1]	ND	0.083	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endrin aldehyde [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 22:22	TG
Endrin ketone [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Heptachlor [1]	ND	0.052	0.0057	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Heptachlor epoxide [2]	ND	0.052	0.0061	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Methoxychlor [1]	ND	0.52	0.062	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Toxaphene [1]	ND	1.0	0.44	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.4	30-150		11/26/24 1:41
Decachlorobiphenyl [1]	77.5	30-150		11/23/24 22:22
Decachlorobiphenyl [2]	74.0	30-150		11/23/24 22:22
Decachlorobiphenyl [2]	80.2	30-150		11/26/24 1:41
Tetrachloro-m-xylene [1]	70.8	30-150		11/26/24 1:41
Tetrachloro-m-xylene [1]	70.6	30-150		11/23/24 22:22
Tetrachloro-m-xylene [2]	68.2	30-150		11/26/24 1:41
Tetrachloro-m-xylene [2]	98.9	30-150		11/23/24 22:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1221 [1]	ND	0.087	0.040	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1232 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1242 [1]	ND	0.087	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1248 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1254 [1]	0.030	0.087	0.026	mg/Kg dry	4	J	SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1260 [1]	ND	0.087	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1262 [1]	ND	0.087	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1268 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.2	30-150		11/17/24 15:13
Decachlorobiphenyl [2]	72.6	30-150		11/17/24 15:13
Tetrachloro-m-xylene [1]	72.5	30-150		11/17/24 15:13
Tetrachloro-m-xylene [2]	83.6	30-150		11/17/24 15:13

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	18	5.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Arsenic	8.7	3.6	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Barium	47	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Beryllium	0.37	0.18	0.054	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Cadmium	0.61	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Calcium	27000	180	93	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:29	HNN
Chromium	13	0.71	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Cobalt	3.6	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Copper	28	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Iron	9600	18	8.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Lead	26	0.54	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Magnesium	11000	180	42	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:29	HNN
Manganese	190	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Mercury	0.043	0.028	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:08	MJH
Nickel	8.2	0.71	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Potassium	630	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 20:37	HNN
Selenium	ND	3.6	0.88	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Sodium	95	180	53	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Vanadium	17	0.71	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Zinc	86	0.71	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.53	0.40	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.074	0.038	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Amyl Alcohol (TAA)	ND	0.015	0.0032	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0015	0.00052	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00074	0.00069	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Benzene	ND	0.0015	0.00046	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromochloromethane	ND	0.0015	0.00064	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromodichloromethane	ND	0.0015	0.00038	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromoform	ND	0.0015	0.00065	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromomethane	ND	0.0074	0.0013	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
2-Butanone (MEK)	ND	0.030	0.0063	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Butyl Alcohol (TBA)	ND	0.074	0.030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
n-Butylbenzene	ND	0.0015	0.00054	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
sec-Butylbenzene	ND	0.0015	0.00060	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Butylbenzene	ND	0.0015	0.00054	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00074	0.00064	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Carbon Disulfide	ND	0.015	0.0075	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Carbon Tetrachloride	ND	0.0015	0.00043	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chlorobenzene	ND	0.0015	0.00036	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chlorodibromomethane	ND	0.00074	0.00049	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chloroethane	ND	0.015	0.0010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chloroform	ND	0.0030	0.00048	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chloromethane	ND	0.0074	0.00090	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Cyclohexane	ND	0.0074	0.0030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	0.00060	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dibromoethane (EDB)	ND	0.00074	0.00054	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dichlorobenzene	ND	0.0015	0.00047	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,3-Dichlorobenzene	ND	0.0015	0.00043	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,4-Dichlorobenzene	ND	0.0015	0.00046	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	0.00065	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1-Dichloroethane	ND	0.0015	0.00045	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dichloroethane	ND	0.0015	0.00051	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1-Dichloroethylene	ND	0.0030	0.00071	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
cis-1,2-Dichloroethylene	ND	0.0015	0.00051	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
trans-1,2-Dichloroethylene	ND	0.0015	0.00044	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dichloropropane	ND	0.0015	0.00046	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
cis-1,3-Dichloropropene	ND	0.00074	0.00056	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
trans-1,3-Dichloropropene	ND	0.00074	0.00057	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Diisopropyl Ether (DIPE)	ND	0.00074	0.00061	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Ethanol	ND	0.15	0.030	mg/Kg dry	1	V-05	UJ	SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Ethylbenzene	ND	0.0015	0.00043	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
2-Hexanone (MBK)	ND	0.015	0.0051	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00057	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	0.00048	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Methyl Acetate	ND	0.0015	0.00099	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:05	MFF

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Methyl Cyclohexane	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Methylene Chloride	ND	0.015	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	0.0065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Naphthalene	ND	0.0030	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
n-Propylbenzene	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Styrene	ND	0.0015	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.00074	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Tetrachloroethylene	ND	0.0015	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Toluene	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,3-Trichlorobenzene	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,4-Trichlorobenzene	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,1-Trichloroethane	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,2-Trichloroethane	ND	0.0015	0.00038	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Trichloroethylene	ND	0.0015	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0074	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,3-Trichloropropane	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0074	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,3,5-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Vinyl Chloride	ND	0.0074	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
m+p Xylene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
o-Xylene	ND	0.0015	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Xylenes (total)	ND	0.0015	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.4	70-130		11/5/24 10:05
Toluene-d8	101	70-130		11/5/24 10:05
4-Bromofluorobenzene	97.5	70-130		11/5/24 10:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.099	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Atrazine	ND	1.4	0.094	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzaldehyde	ND	0.73	0.12	mg/Kg dry	2	V-05	UJ	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Biphenyl	ND	1.4	0.093	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Caprolactam	ND	0.73	0.13	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Acenaphthene	ND	0.37	0.070	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Acenaphthylene	ND	0.37	0.066	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Acetophenone	ND	0.73	0.076	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Aniline	ND	0.73	0.13	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Anthracene	0.076	0.37	0.064	mg/Kg dry	2	J		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(a)anthracene	0.51	0.37	0.059	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(a)pyrene	0.64	0.37	0.066	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(b)fluoranthene	0.98	0.37	0.059	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(g,h,i)perylene	0.55	0.37	0.10	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(k)fluoranthene	0.37	0.37	0.066	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Bis(2-chloroethoxy)methane	ND	0.73	0.078	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Bis(2-chloroethyl)ether	ND	0.73	0.10	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.73	0.46	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Bis(2-Ethylhexyl)phthalate	0.12	0.73	0.086	mg/Kg dry	2	J		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Bromophenylphenylether	ND	0.73	0.067	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Butylbenzylphthalate	ND	0.73	0.081	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Carbazole	ND	0.37	0.074	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Chloroaniline	ND	1.4	0.13	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Chloro-3-methylphenol	ND	1.4	0.076	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Chloronaphthalene	ND	0.73	0.064	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Chlorophenol	ND	0.73	0.073	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Chlorophenylphenylether	ND	0.73	0.060	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Chrysene	0.67	0.37	0.065	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Dibenz(a,h)anthracene	0.11	0.37	0.10	mg/Kg dry	2	J		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Dibenzofuran	ND	0.73	0.065	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Di-n-butylphthalate	ND	0.73	0.28	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
3,3-Dichlorobenzidine	ND	0.37	0.16	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dichlorophenol	ND	0.73	0.069	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Diethylphthalate	ND	0.73	0.070	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dimethylphenol	ND	0.73	0.17	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Dimethylphthalate	ND	0.73	0.069	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4,6-Dinitro-2-methylphenol	ND	0.73	0.58	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dinitrophenol	ND	1.4	0.56	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dinitrotoluene	ND	0.73	0.074	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,6-Dinitrotoluene	ND	0.73	0.077	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Di-n-octylphthalate	ND	0.73	0.10	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Fluoranthene	1.3	0.37	0.060	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Fluorene	ND	0.37	0.065	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Hexachlorobenzene	ND	0.73	0.070	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 19:14	KMC

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.73	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Hexachlorocyclopentadiene	ND	0.73	0.48	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Hexachloroethane	ND	0.73	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Indeno(1,2,3-cd)pyrene	0.52	0.37	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Isophorone	ND	0.73	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
1-Methylnaphthalene	ND	0.37	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Methylnaphthalene	ND	0.37	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Methylphenol	ND	0.73	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
3/4-Methylphenol	ND	0.73	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Naphthalene	ND	0.37	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Nitroaniline	ND	0.73	0.089	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
3-Nitroaniline	ND	0.73	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Nitroaniline	ND	0.73	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Nitrobenzene	ND	0.73	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Nitrophenol	ND	0.73	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Nitrophenol	ND	1.4	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.73	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
N-Nitrosodi-n-propylamine	ND	0.73	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Pentachlorophenol	ND	0.73	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Phenanthrene	0.56	0.37	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Phenol	ND	0.73	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Pyrene	0.99	0.37	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Pyridine	ND	0.73	0.085	mg/Kg dry	2	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.73	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4,5-Trichlorophenol	ND	0.73	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4,6-Trichlorophenol	ND	0.73	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.2	30-130		11/11/24 19:14
Phenol-d6	67.9	30-130		11/11/24 19:14
Nitrobenzene-d5	70.3	30-130		11/11/24 19:14
2-Fluorobiphenyl	57.5	30-130		11/11/24 19:14
2,4,6-Tribromophenol	75.1	30-130		11/11/24 19:14
p-Terphenyl-d14	67.3	30-130		11/11/24 19:14

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.055	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 18:39	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	41.4	15-110		11/15/24 18:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorodecanoic acid (PFDA)	0.18	0.20	0.062	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoroundecanoic acid (PFUnA)	0.37	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorododecanoic acid (PFDoA)	0.55	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorotridecanoic acid (PFTrDA)	0.47	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorotetradecanoic acid (PFTeDA)	0.36	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorooctanesulfonic acid (PFOS)	0.071	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	106	8-130		12/4/24 0:49
13C5-PFPeA	106	35-130		12/4/24 0:49
13C5-PFHxA	105	40-130		12/4/24 0:49
13C4-PFHpA	103	40-130		12/4/24 0:49
13C8-PFOA	111	40-130		12/4/24 0:49
13C9-PFNA	106	40-130		12/4/24 0:49
13C6-PFDA	114	40-130		12/4/24 0:49
13C7-PFUnA	120	40-130		12/4/24 0:49
13C2-PFDoA	113	40-130		12/4/24 0:49
13C2-PFTeDA	117	20-130		12/4/24 0:49
13C3-PFBS	103	40-135		12/4/24 0:49
13C3-PFHxS	102	40-130		12/4/24 0:49
13C8-PFOS	102	40-130		12/4/24 0:49
13C2-4:2FTS	109	40-165		12/4/24 0:49
13C2-6:2FTS	113	40-215		12/4/24 0:49
13C2-8:2FTS	125	40-275		12/4/24 0:49
13C8-PFOSA	94.7	40-130		12/4/24 0:49
D3-NMeFOSA	87.0	10-130		12/4/24 0:49
D5-NEtFOSA	87.4	10-130		12/4/24 0:49
D3-NMeFOSAA	106	40-135		12/4/24 0:49
D5-NEtFOSAA	107	40-150		12/4/24 0:49
D7-NMeFOSE	99.1	20-130		12/4/24 0:49
D9-NEtFOSE	101	15-130		12/4/24 0:49
13C3-HFPO-DA	106	40-130		12/4/24 0:49

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.054	0.055	0.021	mg/Kg dry	10	P-02, J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
gamma-Chlordane [1]	0.057	0.055	0.024	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Aldrin [1]	ND	0.055	0.0054	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
alpha-BHC [1]	ND	0.055	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
beta-BHC [1]	ND	0.055	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
delta-BHC [1]	ND	0.055	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
gamma-BHC (Lindane) [1]	ND	0.022	0.0077	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
4,4'-DDD [1]	ND	0.044	0.0094	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
4,4'-DDE [1]	ND	0.044	0.0049	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
4,4'-DDT [1]	0.011	0.044	0.0057	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Dieldrin [2]	0.011	0.044	0.0063	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endosulfan I [1]	ND	0.055	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endosulfan II [1]	ND	0.089	0.024	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endosulfan sulfate [1]	ND	0.089	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endrin [1]	ND	0.089	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endrin aldehyde [1]	ND	0.089	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 22:34	TG
Endrin ketone [1]	ND	0.089	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Heptachlor [1]	0.010	0.055	0.0061	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Heptachlor epoxide [1]	0.011	0.055	0.0064	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Methoxychlor [1]	ND	0.55	0.066	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Toxaphene [1]	ND	1.1	0.46	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		11/26/24 2:09
Decachlorobiphenyl [1]	86.3	30-150		11/23/24 22:34
Decachlorobiphenyl [2]	81.5	30-150		11/26/24 2:09
Decachlorobiphenyl [2]	86.8	30-150		11/23/24 22:34
Tetrachloro-m-xylene [1]	78.2	30-150		11/26/24 2:09
Tetrachloro-m-xylene [1]	80.4	30-150		11/23/24 22:34
Tetrachloro-m-xylene [2]	75.9	30-150		11/26/24 2:09
Tetrachloro-m-xylene [2]	84.4	30-150		11/23/24 22:34

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1221 [1]	ND	0.088	0.041	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1232 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1242 [1]	ND	0.088	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1248 [1]	ND	0.088	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1254 [1]	ND	0.088	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1260 [1]	ND	0.088	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1262 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1268 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.8	30-150		11/17/24 15:30
Decachlorobiphenyl [2]	64.4	30-150		11/17/24 15:30
Tetrachloro-m-xylene [1]	74.3	30-150		11/17/24 15:30
Tetrachloro-m-xylene [2]	77.8	30-150		11/17/24 15:30

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Arsenic	9.5	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Barium	49	1.8	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Beryllium	0.60	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Cadmium	0.52	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Calcium	30000	180	94	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:44	HNN
Chromium	21	0.73	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Cobalt	5.5	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Copper	69	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Iron	12000	18	8.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Lead	120	0.55	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Magnesium	8400	180	42	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:44	HNN
Manganese	220	0.36	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Mercury	0.063	0.028	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:10	MJH
Nickel	19	0.73	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Potassium	740	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 20:52	HNN
Selenium	ND	3.6	0.90	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Sodium	180	180	54	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Thallium	ND	1.8	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Vanadium	19	0.73	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Zinc	310	0.73	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.048	0.025	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Amyl Alcohol (TAA)	ND	0.0096	0.0021	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.00096	0.00034	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00048	0.00045	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Benzene	ND	0.00096	0.00030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromochloromethane	ND	0.00096	0.00041	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromodichloromethane	ND	0.00096	0.00025	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromoform	ND	0.00096	0.00042	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromomethane	ND	0.0048	0.00085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
2-Butanone (MEK)	ND	0.019	0.0041	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	0.020	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
n-Butylbenzene	ND	0.00096	0.00035	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
sec-Butylbenzene	ND	0.00096	0.00039	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Butylbenzene	ND	0.00096	0.00035	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00048	0.00042	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Carbon Disulfide	ND	0.0096	0.0048	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Carbon Tetrachloride	ND	0.00096	0.00028	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chlorobenzene	ND	0.00096	0.00023	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chlorodibromomethane	ND	0.00048	0.00032	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chloroethane	ND	0.0096	0.00067	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chloroform	ND	0.0019	0.00031	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chloromethane	ND	0.0048	0.00058	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Cyclohexane	ND	0.0048	0.0020	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.00039	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dibromoethane (EDB)	ND	0.00048	0.00035	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dichlorobenzene	ND	0.00096	0.00031	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,3-Dichlorobenzene	ND	0.00096	0.00028	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,4-Dichlorobenzene	ND	0.00096	0.00030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0096	0.00042	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1-Dichloroethane	ND	0.00096	0.00029	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dichloroethane	ND	0.00096	0.00033	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1-Dichloroethylene	ND	0.0019	0.00046	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
cis-1,2-Dichloroethylene	ND	0.00096	0.00033	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
trans-1,2-Dichloroethylene	ND	0.00096	0.00029	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dichloropropane	ND	0.00096	0.00030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
cis-1,3-Dichloropropene	ND	0.00048	0.00036	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
trans-1,3-Dichloropropene	ND	0.00048	0.00037	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Diisopropyl Ether (DIPE)	ND	0.00048	0.00039	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Ethanol	ND	0.096	0.019	mg/Kg dry	1	V-05	UJ	SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Ethylbenzene	ND	0.00096	0.00028	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
2-Hexanone (MBK)	ND	0.0096	0.0033	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Isopropylbenzene (Cumene)	ND	0.00096	0.00037	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00096	0.00031	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Methyl Acetate	ND	0.00096	0.00064	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:30	MFF

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Methyl Cyclohexane	ND	0.00096	0.00034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Methylene Chloride	ND	0.0096	0.00045	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0096	0.0042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Naphthalene	ND	0.0019	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
n-Propylbenzene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Styrene	ND	0.00096	0.00030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.00048	0.00037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Tetrachloroethylene	ND	0.00096	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Toluene	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,3-Trichlorobenzene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,4-Trichlorobenzene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,1-Trichloroethane	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,2-Trichloroethane	ND	0.00096	0.00025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Trichloroethylene	ND	0.00096	0.00036	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0048	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,3-Trichloropropane	ND	0.00096	0.00039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0048	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,4-Trimethylbenzene	ND	0.00096	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,3,5-Trimethylbenzene	ND	0.00096	0.00038	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Vinyl Chloride	ND	0.0048	0.00037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
m+p Xylene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
o-Xylene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Xylenes (total)	ND	0.00096	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.6	70-130		11/5/24 10:30
Toluene-d8	100	70-130		11/5/24 10:30
4-Bromofluorobenzene	96.3	70-130		11/5/24 10:30

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.093	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Atrazine	ND	1.4	0.089	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzaldehyde	ND	0.69	0.11	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Biphenyl	ND	1.4	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Caprolactam	ND	0.69	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Acenaphthene	ND	0.35	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Acenaphthylene	ND	0.35	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Acetophenone	ND	0.69	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Aniline	ND	0.69	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Anthracene	ND	0.35	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(a)anthracene	0.32	0.35	0.056	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(a)pyrene	0.38	0.35	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(b)fluoranthene	0.57	0.35	0.056	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(g,h,i)perylene	0.35	0.35	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(k)fluoranthene	0.20	0.35	0.062	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Bis(2-chloroethoxy)methane	ND	0.69	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Bis(2-chloroethyl)ether	ND	0.69	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.69	0.44	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Bis(2-Ethylhexyl)phthalate	0.25	0.69	0.082	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Bromophenylphenylether	ND	0.69	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Butylbenzylphthalate	ND	0.69	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Carbazole	ND	0.35	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Chloroaniline	ND	1.3	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Chloro-3-methylphenol	ND	1.3	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Chloronaphthalene	ND	0.69	0.060	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Chlorophenol	ND	0.69	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Chlorophenylphenylether	ND	0.69	0.057	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Chrysene	0.37	0.35	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Dibenz(a,h)anthracene	ND	0.35	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Dibenzofuran	ND	0.69	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Di-n-butylphthalate	ND	0.69	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
3,3-Dichlorobenzidine	ND	0.35	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dichlorophenol	ND	0.69	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Diethylphthalate	ND	0.69	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dimethylphenol	ND	0.69	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Dimethylphthalate	ND	0.69	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4,6-Dinitro-2-methylphenol	ND	0.69	0.54	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dinitrophenol	ND	1.3	0.53	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dinitrotoluene	ND	0.69	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,6-Dinitrotoluene	ND	0.69	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Di-n-octylphthalate	ND	0.69	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Fluoranthene	0.70	0.35	0.057	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Fluorene	ND	0.35	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Hexachlorobenzene	ND	0.69	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.69	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Hexachlorocyclopentadiene	ND	0.69	0.45	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Hexachloroethane	ND	0.69	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Indeno(1,2,3-cd)pyrene	0.34	0.35	0.11	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Isophorone	ND	0.69	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
1-Methylnaphthalene	ND	0.35	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Methylnaphthalene	ND	0.35	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Methylphenol	ND	0.69	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
3/4-Methylphenol	ND	0.69	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Naphthalene	ND	0.35	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Nitroaniline	ND	0.69	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
3-Nitroaniline	ND	0.69	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Nitroaniline	ND	0.69	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Nitrobenzene	ND	0.69	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Nitrophenol	ND	0.69	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Nitrophenol	ND	1.3	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.69	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
N-Nitrosodi-n-propylamine	ND	0.69	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Pentachlorophenol	ND	0.69	0.25	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Phenanthrene	0.27	0.35	0.061	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Phenol	ND	0.69	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Pyrene	0.61	0.35	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Pyridine	ND	0.69	0.081	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.69	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4,5-Trichlorophenol	ND	0.69	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4,6-Trichlorophenol	ND	0.69	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	74.0	30-130		11/11/24 19:39
Phenol-d6	76.8	30-130		11/11/24 19:39
Nitrobenzene-d5	82.3	30-130		11/11/24 19:39
2-Fluorobiphenyl	67.1	30-130		11/11/24 19:39
2,4,6-Tribromophenol	77.2	30-130		11/11/24 19:39
p-Terphenyl-d14	78.7	30-130		11/11/24 19:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.051	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 19:00	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	45.0	15-110		11/15/24 19:00

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorooctanesulfonic acid (PFOS)	0.073	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.0	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	96.9	8-130		12/4/24 0:58
13C5-PFPeA	102	35-130		12/4/24 0:58
13C5-PFHxA	103	40-130		12/4/24 0:58
13C4-PFHpA	99.8	40-130		12/4/24 0:58
13C8-PFOA	102	40-130		12/4/24 0:58
13C9-PFNA	96.1	40-130		12/4/24 0:58
13C6-PFDA	101	40-130		12/4/24 0:58
13C7-PFUnA	106	40-130		12/4/24 0:58
13C2-PFDoA	105	40-130		12/4/24 0:58
13C2-PFTeDA	110	20-130		12/4/24 0:58
13C3-PFBS	102	40-135		12/4/24 0:58
13C3-PFHxS	106	40-130		12/4/24 0:58
13C8-PFOS	104	40-130		12/4/24 0:58
13C2-4:2FTS	110	40-165		12/4/24 0:58
13C2-6:2FTS	117	40-215		12/4/24 0:58
13C2-8:2FTS	134	40-275		12/4/24 0:58
13C8-PFOSA	88.2	40-130		12/4/24 0:58
D3-NMeFOSA	84.7	10-130		12/4/24 0:58
D5-NEtFOSA	87.6	10-130		12/4/24 0:58
D3-NMeFOSAA	91.2	40-135		12/4/24 0:58
D5-NEtFOSAA	96.8	40-150		12/4/24 0:58
D7-NMeFOSE	99.2	20-130		12/4/24 0:58
D9-NEtFOSE	92.6	15-130		12/4/24 0:58
13C3-HFPO-DA	106	40-130		12/4/24 0:58

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.048	0.10	0.039	mg/Kg dry	20	P-02, J	SW-846 8081B	11/11/24	11/26/24 2:37	TG
gamma-Chlordane [2]	0.047	0.10	0.042	mg/Kg dry	20	J	SW-846 8081B	11/11/24	11/26/24 2:37	TG
Aldrin [2]	ND	0.10	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
alpha-BHC [1]	ND	0.10	0.048	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
beta-BHC [1]	ND	0.10	0.054	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
delta-BHC [1]	ND	0.10	0.054	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
gamma-BHC (Lindane) [1]	ND	0.041	0.014	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
4,4'-DDD [2]	ND	0.081	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
4,4'-DDE [1]	ND	0.081	0.0090	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
4,4'-DDT [1]	0.029	0.081	0.010	mg/Kg dry	20	J	SW-846 8081B	11/11/24	11/26/24 2:37	TG
Dieldrin [2]	0.084	0.081	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endosulfan I [1]	ND	0.10	0.049	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endosulfan II [1]	ND	0.16	0.044	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endosulfan sulfate [1]	ND	0.16	0.039	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endrin [1]	ND	0.16	0.051	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endrin aldehyde [1]	ND	0.16	0.040	mg/Kg dry	20		SW-846 8081B	11/11/24	11/23/24 22:46	TG
Endrin ketone [1]	ND	0.16	0.041	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Heptachlor [1]	ND	0.10	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Heptachlor epoxide [2]	ND	0.10	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Methoxychlor [1]	ND	1.0	0.12	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Toxaphene [1]	ND	2.0	0.85	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.3	30-150		11/26/24 2:37
Decachlorobiphenyl [1]	95.2	30-150		11/23/24 22:46
Decachlorobiphenyl [2]	93.5	30-150		11/26/24 2:37
Decachlorobiphenyl [2]	89.6	30-150		11/23/24 22:46
Tetrachloro-m-xylene [1]	84.4	30-150		11/26/24 2:37
Tetrachloro-m-xylene [1]	84.6	30-150		11/23/24 22:46
Tetrachloro-m-xylene [2]	79.9	30-150		11/26/24 2:37
Tetrachloro-m-xylene [2]	88.4	30-150		11/23/24 22:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1221 [1]	ND	0.083	0.038	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1232 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1242 [1]	ND	0.083	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1248 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1254 [1]	0.058	0.083	0.025	mg/Kg dry	4	J	SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1260 [1]	ND	0.083	0.017	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1262 [1]	ND	0.083	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1268 [1]	ND	0.083	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.7	30-150		11/17/24 15:47
Decachlorobiphenyl [2]	69.3	30-150		11/17/24 15:47
Tetrachloro-m-xylene [1]	70.5	30-150		11/17/24 15:47
Tetrachloro-m-xylene [2]	82.8	30-150		11/17/24 15:47

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	17	5.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Antimony	ND	1.7	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Arsenic	5.6	3.4	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Barium	48	1.7	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Beryllium	0.28	0.17	0.052	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Cadmium	0.27	0.34	0.16	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Calcium	65000	170	89	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 21:13	HNN
Chromium	14	0.69	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Cobalt	3.0	1.7	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Copper	30	1.4	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Iron	11000	17	8.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Lead	21	0.52	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Magnesium	25000	170	40	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 21:13	HNN
Manganese	190	0.34	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Mercury	0.051	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:11	MJH
Nickel	8.9	0.69	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Potassium	1200	170	43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:21	HNN
Selenium	ND	3.4	0.86	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Sodium	200	170	51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Thallium	ND	1.7	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Vanadium	18	0.69	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Zinc	92	0.69	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.49	0.37	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Benzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromochloromethane	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromodichloromethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromoform	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
2-Butanone (MEK)	ND	0.040	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
n-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
sec-Butylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1	MS-07A X	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Carbon Tetrachloride	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chlorobenzene	ND	0.0020	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chlorodibromomethane	ND	0.0010	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chloroform	ND	0.0040	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Cyclohexane	ND	0.010	0.0041	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00088	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1-Dichloroethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1-Dichloroethylene	ND	0.0040	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00060	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dichloropropane	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	MS-07A, V-05 X	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Ethylbenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
2-Hexanone (MBK)	ND	0.020	0.0069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Methyl Cyclohexane	ND	0.0020	0.00072	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Methylene Chloride	ND	0.020	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Naphthalene	ND	0.0040	0.00099	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
n-Propylbenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Styrene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Tetrachloroethylene	ND	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Toluene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Trichloroethylene	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Vinyl Chloride	ND	0.010	0.00078	mg/Kg dry	1	MS-07A UJ	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
m+p Xylene	ND	0.0040	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
o-Xylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		11/5/24 7:54
Toluene-d8	98.6	70-130		11/5/24 7:54
4-Bromofluorobenzene	98.0	70-130		11/5/24 7:54

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Atrazine	ND	1.4	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzaldehyde	ND	0.71	0.11	mg/Kg dry	2	V-05 UJ	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Biphenyl	ND	1.4	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Caprolactam	ND	0.71	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Acenaphthene	ND	0.36	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Acenaphthylene	ND	0.36	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Acetophenone	ND	0.71	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Aniline	ND	0.71	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Anthracene	ND	0.36	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(a)anthracene	0.11	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(a)pyrene	0.14	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(b)fluoranthene	0.23	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(g,h,i)perylene	0.15	0.36	0.10	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(k)fluoranthene	0.098	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Bis(2-chloroethoxy)methane	ND	0.71	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Bis(2-chloroethyl)ether	ND	0.71	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.71	0.45	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Bis(2-Ethylhexyl)phthalate	0.10	0.71	0.084	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Bromophenylphenylether	ND	0.71	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Butylbenzylphthalate	ND	0.71	0.079	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Carbazole	ND	0.36	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Chloroaniline	ND	1.4	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Chloro-3-methylphenol	ND	1.4	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Chloronaphthalene	ND	0.71	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Chlorophenol	ND	0.71	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Chlorophenylphenylether	ND	0.71	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Chrysene	0.16	0.36	0.063	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Dibenz(a,h)anthracene	ND	0.36	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Dibenzofuran	ND	0.71	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Di-n-butylphthalate	ND	0.71	0.27	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
3,3-Dichlorobenzidine	ND	0.36	0.15	mg/Kg dry	2	X	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dichlorophenol	ND	0.71	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Diethylphthalate	ND	0.71	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dimethylphenol	ND	0.71	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Dimethylphthalate	ND	0.71	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4,6-Dinitro-2-methylphenol	ND	0.71	0.56	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dinitrophenol	ND	1.4	0.55	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dinitrotoluene	ND	0.71	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,6-Dinitrotoluene	ND	0.71	0.075	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Di-n-octylphthalate	ND	0.71	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Fluoranthene	0.25	0.36	0.059	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Fluorene	ND	0.36	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Hexachlorobenzene	ND	0.71	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.71	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Hexachlorocyclopentadiene	ND	0.71	0.47	mg/Kg dry	2	X	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Hexachloroethane	ND	0.71	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Indeno(1,2,3-cd)pyrene	0.13	0.36	0.12	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Isophorone	ND	0.71	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
1-Methylnaphthalene	ND	0.36	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Methylnaphthalene	ND	0.36	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Methylphenol	ND	0.71	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
3/4-Methylphenol	ND	0.71	0.094	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Naphthalene	ND	0.36	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Nitroaniline	ND	0.71	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
3-Nitroaniline	ND	0.71	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Nitroaniline	ND	0.71	0.079	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Nitrobenzene	ND	0.71	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Nitrophenol	ND	0.71	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Nitrophenol	ND	1.4	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.71	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
N-Nitrosodi-n-propylamine	ND	0.71	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Pentachlorophenol	ND	0.71	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Phenanthrene	0.10	0.36	0.063	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Phenol	ND	0.71	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Pyrene	0.22	0.36	0.074	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Pyridine	ND	0.71	0.083	mg/Kg dry	2	L-04, V-34 X	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.71	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4,5-Trichlorophenol	ND	0.71	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4,6-Trichlorophenol	ND	0.71	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	55.6	30-130		11/11/24 20:03
Phenol-d6	60.6	30-130		11/11/24 20:03
Nitrobenzene-d5	61.6	30-130		11/11/24 20:03
2-Fluorobiphenyl	51.2	30-130		11/11/24 20:03
2,4,6-Tribromophenol	61.0	30-130		11/11/24 20:03
p-Terphenyl-d14	56.7	30-130		11/11/24 20:03

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.053	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 19:21	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	35.4	15-110		11/15/24 19:21

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorooctanoic acid (PFOA)	0.069	0.20	0.069	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorodecanoic acid (PFDA)	0.098	0.20	0.062	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoroundecanoic acid (PFUnA)	0.086	0.20	0.082	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorododecanoic acid (PFDoA)	0.18	0.20	0.074	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorotridecanoic acid (PFTrDA)	0.11	0.20	0.063	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorotetradecanoic acid (PFTeDA)	0.13	0.20	0.067	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorooctanesulfonic acid (PFOS)	0.25	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	98.4	8-130		12/4/24 1:07
13C5-PFPeA	98.6	35-130		12/4/24 1:07
13C5-PFHxA	98.0	40-130		12/4/24 1:07
13C4-PFHpA	94.9	40-130		12/4/24 1:07
13C8-PFOA	101	40-130		12/4/24 1:07
13C9-PFNA	96.8	40-130		12/4/24 1:07
13C6-PFDA	101	40-130		12/4/24 1:07
13C7-PFUnA	102	40-130		12/4/24 1:07
13C2-PFDoA	107	40-130		12/4/24 1:07
13C2-PFTeDA	108	20-130		12/4/24 1:07
13C3-PFBS	100	40-135		12/4/24 1:07
13C3-PFHxS	99.6	40-130		12/4/24 1:07
13C8-PFOS	104	40-130		12/4/24 1:07
13C2-4:2FTS	112	40-165		12/4/24 1:07
13C2-6:2FTS	129	40-215		12/4/24 1:07
13C2-8:2FTS	153	40-275		12/4/24 1:07
13C8-PFOSA	89.6	40-130		12/4/24 1:07
D3-NMeFOSA	79.3	10-130		12/4/24 1:07
D5-NEtFOSA	75.8	10-130		12/4/24 1:07
D3-NMeFOSAA	102	40-135		12/4/24 1:07
D5-NEtFOSAA	101	40-150		12/4/24 1:07
D7-NMeFOSE	99.0	20-130		12/4/24 1:07
D9-NEtFOSE	96.5	15-130		12/4/24 1:07
13C3-HFPO-DA	101	40-130		12/4/24 1:07

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.027	0.052	0.020	mg/Kg dry	10	P-02, J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
gamma-Chlordane [1]	0.025	0.052	0.023	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
Aldrin [1]	ND	0.052	0.0051	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
alpha-BHC [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
beta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
delta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
gamma-BHC (Lindane) [1]	ND	0.021	0.0072	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
4,4'-DDD [1]	ND	0.042	0.0089	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
4,4'-DDE [1]	0.024	0.042	0.0046	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
4,4'-DDT [1]	0.051	0.042	0.0054	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Dieldrin [1]	0.018	0.042	0.0050	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endosulfan I [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endosulfan II [1]	ND	0.083	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endosulfan sulfate [1]	ND	0.083	0.020	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endrin [1]	ND	0.083	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endrin aldehyde [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 22:58	TG
Endrin ketone [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Heptachlor [1]	ND	0.052	0.0057	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Heptachlor epoxide [1]	ND	0.052	0.0061	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Methoxychlor [1]	ND	0.52	0.062	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Toxaphene [1]	ND	1.0	0.44	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		11/26/24 3:05
Decachlorobiphenyl [1]	66.1	30-150		11/23/24 22:58
Decachlorobiphenyl [2]	67.0	30-150		11/26/24 3:05
Decachlorobiphenyl [2]	66.5	30-150		11/23/24 22:58
Tetrachloro-m-xylene [1]	65.8	30-150		11/26/24 3:05
Tetrachloro-m-xylene [1]	62.3	30-150		11/23/24 22:58
Tetrachloro-m-xylene [2]	80.3	30-150		11/23/24 22:58
Tetrachloro-m-xylene [2]	61.3	30-150		11/26/24 3:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1221 [1]	ND	0.085	0.039	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1232 [1]	ND	0.085	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1242 [1]	ND	0.085	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1248 [1]	ND	0.085	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1254 [1]	0.028	0.085	0.025	mg/Kg dry	4	J	SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1260 [1]	ND	0.085	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1262 [1]	ND	0.085	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1268 [1]	ND	0.085	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		11/17/24 16:05
Decachlorobiphenyl [2]	66.3	30-150		11/17/24 16:05
Tetrachloro-m-xylene [1]	70.0	30-150		11/17/24 16:05
Tetrachloro-m-xylene [2]	74.3	30-150		11/17/24 16:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6500	17	5.3	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Antimony	ND	1.7	0.45	mg/Kg dry	1	MS-07A	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Arsenic	7.3	3.4	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Barium	50	1.7	0.36	mg/Kg dry	1	MS-22	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Beryllium	0.35	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Cadmium	0.63	0.34	0.16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Calcium	23000	170	88	mg/Kg dry	10	MS-19	SW-846 6010D	11/6/24	11/11/24 19:58	HNN
Chromium	14	0.68	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Cobalt	3.3	1.7	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Copper	25	1.4	1.2	mg/Kg dry	1	MS-22	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Iron	9500	17	7.8	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Lead	22	0.51	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Magnesium	9700	170	39	mg/Kg dry	10	MS-19	SW-846 6010D	11/6/24	11/11/24 19:58	HNN
Manganese	180	0.34	0.19	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Mercury	0.038	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 22:52	MJH
Nickel	7.7	0.68	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Potassium	600	170	42	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/11/24 20:06	HNN
Selenium	ND	3.4	0.84	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Sodium	92	170	50	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Thallium	ND	1.7	0.54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Vanadium	14	0.68	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Zinc	76	0.68	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: Trip Blank 102924 | Sampled: 10/28/2024 00:00

Sample ID: 24K0186-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.7	50	2.0	µg/L	1	V-05, J J	SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Benzene	ND	1.0	0.14	µg/L	1	UJ	SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1	UJ	SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1	UJ	SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: Trip Blank 102924 | Sampled: 10/28/2024 00:00

Sample ID: 24K0186-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.9	70-130		11/6/24 11:02
Toluene-d8	98.4	70-130		11/6/24 11:02
4-Bromofluorobenzene	100	70-130		11/6/24 11:02

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.052	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00071	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00094	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Benzene	ND	0.0020	0.00063	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromochloromethane	ND	0.0020	0.00087	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromodichloromethane	ND	0.0020	0.00052	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromoform	ND	0.0020	0.00088	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
2-Butanone (MEK)	ND	0.040	0.0085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.042	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
n-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
sec-Butylbenzene	ND	0.0020	0.00081	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00087	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Carbon Tetrachloride	ND	0.0020	0.00059	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chlorobenzene	ND	0.0020	0.00049	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chlorodibromomethane	ND	0.0010	0.00067	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chloroform	ND	0.0040	0.00066	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Cyclohexane	ND	0.010	0.0041	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00082	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00074	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00058	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00088	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1-Dichloroethane	ND	0.0020	0.00061	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1-Dichloroethylene	ND	0.0040	0.00097	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00070	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00060	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dichloropropane	ND	0.0020	0.00062	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00077	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00078	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00082	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	V-05	UJ	SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Ethylbenzene	ND	0.0020	0.00058	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
2-Hexanone (MBK)	ND	0.020	0.0069	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00078	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00065	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 10:56	MFF

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Methyl Cyclohexane	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Methylene Chloride	ND	0.020	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Naphthalene	ND	0.0040	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
n-Propylbenzene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Styrene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Tetrachloroethylene	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Toluene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Trichloroethylene	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Vinyl Chloride	ND	0.010	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
m+p Xylene	ND	0.0040	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
o-Xylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		11/5/24 10:56
Toluene-d8	101	70-130		11/5/24 10:56
4-Bromofluorobenzene	97.1	70-130		11/5/24 10:56

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.6	0.11	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Atrazine	ND	1.6	0.10	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzaldehyde	ND	0.81	0.13	mg/Kg dry	2	V-05	UJ	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Biphenyl	ND	1.6	0.10	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Caprolactam	ND	0.81	0.14	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Acenaphthene	ND	0.40	0.077	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Acenaphthylene	ND	0.40	0.073	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Acetophenone	ND	0.81	0.084	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Aniline	ND	0.81	0.14	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Anthracene	0.14	0.40	0.071	mg/Kg dry	2	J		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(a)anthracene	0.54	0.40	0.065	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(a)pyrene	0.58	0.40	0.073	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(b)fluoranthene	0.73	0.40	0.065	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(g,h,i)perylene	0.38	0.40	0.12	mg/Kg dry	2	J		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(k)fluoranthene	0.33	0.40	0.073	mg/Kg dry	2	J		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Bis(2-chloroethoxy)methane	ND	0.81	0.086	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Bis(2-chloroethyl)ether	ND	0.81	0.11	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.81	0.51	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.81	0.095	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Bromophenylphenylether	ND	0.81	0.074	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Butylbenzylphthalate	ND	0.81	0.090	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Carbazole	ND	0.40	0.081	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Chloroaniline	ND	1.6	0.14	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Chloro-3-methylphenol	ND	1.6	0.084	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Chloronaphthalene	ND	0.81	0.070	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Chlorophenol	ND	0.81	0.081	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Chlorophenylphenylether	ND	0.81	0.067	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Chrysene	0.57	0.40	0.072	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Dibenz(a,h)anthracene	ND	0.40	0.11	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Dibenzofuran	ND	0.81	0.072	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Di-n-butylphthalate	ND	0.81	0.31	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
3,3-Dichlorobenzidine	ND	0.40	0.17	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dichlorophenol	ND	0.81	0.076	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Diethylphthalate	ND	0.81	0.078	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dimethylphenol	ND	0.81	0.19	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Dimethylphthalate	ND	0.81	0.076	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4,6-Dinitro-2-methylphenol	ND	0.81	0.63	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dinitrophenol	ND	1.6	0.62	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dinitrotoluene	ND	0.81	0.082	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,6-Dinitrotoluene	ND	0.81	0.085	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Di-n-octylphthalate	ND	0.81	0.11	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Fluoranthene	1.3	0.40	0.066	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Fluorene	ND	0.40	0.072	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Hexachlorobenzene	ND	0.81	0.078	mg/Kg dry	2			SW-846 8270E	11/10/24	11/11/24 21:18	KMC

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.81	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Hexachlorocyclopentadiene	ND	0.81	0.53	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Hexachloroethane	ND	0.81	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Indeno(1,2,3-cd)pyrene	0.42	0.40	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Isophorone	ND	0.81	0.086	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
1-Methylnaphthalene	ND	0.40	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Methylnaphthalene	ND	0.40	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Methylphenol	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
3/4-Methylphenol	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Naphthalene	ND	0.40	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Nitroaniline	ND	0.81	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
3-Nitroaniline	ND	0.81	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Nitroaniline	ND	0.81	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Nitrobenzene	ND	0.81	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Nitrophenol	ND	0.81	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Nitrophenol	ND	1.6	0.21	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.81	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
N-Nitrosodi-n-propylamine	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Pentachlorophenol	ND	0.81	0.29	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Phenanthrene	0.65	0.40	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Phenol	ND	0.81	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Pyrene	1.2	0.40	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Pyridine	ND	0.81	0.094	mg/Kg dry	2	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.81	0.080	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4,5-Trichlorophenol	ND	0.81	0.082	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4,6-Trichlorophenol	ND	0.81	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	70.1	30-130		11/11/24 21:18
Phenol-d6	76.8	30-130		11/11/24 21:18
Nitrobenzene-d5	79.0	30-130		11/11/24 21:18
2-Fluorobiphenyl	69.4	30-130		11/11/24 21:18
2,4,6-Tribromophenol	85.4	30-130		11/11/24 21:18
p-Terphenyl-d14	85.4	30-130		11/11/24 21:18

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.059	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 20:25	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	38.5	15-110		11/15/24 20:25

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	81.0	8-130		12/4/24 1:16
13C5-PFPeA	102	35-130		12/4/24 1:16
13C5-PFHxA	107	40-130		12/4/24 1:16
13C4-PFHpA	103	40-130		12/4/24 1:16
13C8-PFOA	98.0	40-130		12/4/24 1:16
13C9-PFNA	101	40-130		12/4/24 1:16
13C6-PFDA	108	40-130		12/4/24 1:16
13C7-PFUnA	111	40-130		12/4/24 1:16
13C2-PFDoA	112	40-130		12/4/24 1:16
13C2-PFTeDA	116	20-130		12/4/24 1:16
13C3-PFBS	107	40-135		12/4/24 1:16
13C3-PFHxS	107	40-130		12/4/24 1:16
13C8-PFOS	105	40-130		12/4/24 1:16
13C2-4:2FTS	96.3	40-165		12/4/24 1:16
13C2-6:2FTS	91.7	40-215		12/4/24 1:16
13C2-8:2FTS	101	40-275		12/4/24 1:16
13C8-PFOSA	99.0	40-130		12/4/24 1:16
D3-NMeFOSA	92.3	10-130		12/4/24 1:16
D5-NEtFOSA	93.7	10-130		12/4/24 1:16
D3-NMeFOSAA	101	40-135		12/4/24 1:16
D5-NEtFOSAA	99.9	40-150		12/4/24 1:16
D7-NMeFOSE	109	20-130		12/4/24 1:16
D9-NEtFOSE	111	15-130		12/4/24 1:16
13C3-HFPO-DA	109	40-130		12/4/24 1:16

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.029	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
gamma-Chlordane [1]	ND	0.029	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Aldrin [1]	ND	0.029	0.0028	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
alpha-BHC [1]	ND	0.029	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
beta-BHC [1]	ND	0.029	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
delta-BHC [1]	ND	0.029	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
gamma-BHC (Lindane) [1]	ND	0.011	0.0040	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
4,4'-DDD [2]	ND	0.023	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
4,4'-DDE [1]	ND	0.023	0.0025	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
4,4'-DDT [2]	ND	0.023	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Dieldrin [2]	ND	0.023	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endosulfan I [1]	ND	0.029	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endosulfan II [1]	ND	0.046	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endosulfan sulfate [1]	ND	0.046	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endrin [1]	ND	0.046	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endrin aldehyde [1]	ND	0.046	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/23/24 23:10	TG
Endrin ketone [1]	ND	0.046	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Heptachlor [1]	ND	0.029	0.0031	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Heptachlor epoxide [1]	ND	0.029	0.0033	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Methoxychlor [1]	ND	0.29	0.034	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Toxaphene [1]	ND	0.57	0.24	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.0	30-150		11/23/24 23:10
Decachlorobiphenyl [1]	86.2	30-150		11/26/24 3:33
Decachlorobiphenyl [2]	84.1	30-150		11/23/24 23:10
Decachlorobiphenyl [2]	83.2	30-150		11/26/24 3:33
Tetrachloro-m-xylene [1]	75.7	30-150		11/23/24 23:10
Tetrachloro-m-xylene [1]	69.4	30-150		11/26/24 3:33
Tetrachloro-m-xylene [2]	80.4	30-150		11/23/24 23:10
Tetrachloro-m-xylene [2]	67.3	30-150		11/26/24 3:33

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1221 [1]	ND	0.095	0.044	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1232 [1]	ND	0.095	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1242 [1]	ND	0.095	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1248 [1]	ND	0.095	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1254 [1]	ND	0.095	0.028	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1260 [1]	ND	0.095	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1262 [1]	ND	0.095	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1268 [1]	ND	0.095	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		11/17/24 16:22
Decachlorobiphenyl [2]	84.0	30-150		11/17/24 16:22
Tetrachloro-m-xylene [1]	75.2	30-150		11/17/24 16:22
Tetrachloro-m-xylene [2]	88.5	30-150		11/17/24 16:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1100	19	6.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Arsenic	1.9	3.8	0.54	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Barium	14	1.9	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Beryllium	0.086	0.19	0.058	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Cadmium	ND	0.38	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Calcium	10000	19	9.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Chromium	3.8	0.76	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Cobalt	0.69	1.9	0.32	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Copper	14	1.5	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Iron	2600	19	8.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Lead	57	0.57	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Magnesium	4400	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Manganese	38	0.38	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Mercury	0.32	0.030	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:13	MJH
Nickel	2.2	0.76	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Potassium	310	190	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:28	HNN
Selenium	ND	3.8	0.95	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Sodium	2800	190	57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Vanadium	3.6	0.76	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Zinc	30	0.76	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.064	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Amyl Alcohol (TAA)	ND	0.025	0.0053	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0025	0.00087	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.0012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Benzene	ND	0.0025	0.00078	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromochloromethane	ND	0.0025	0.0011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromodichloromethane	ND	0.0025	0.00064	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromoform	ND	0.0025	0.0011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromomethane	ND	0.012	0.0022	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
2-Butanone (MEK)	ND	0.050	0.010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Butyl Alcohol (TBA)	ND	0.12	0.051	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
n-Butylbenzene	ND	0.0025	0.00090	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
sec-Butylbenzene	ND	0.0025	0.0010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Butylbenzene	ND	0.0025	0.00090	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.0011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Carbon Disulfide	ND	0.025	0.012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Carbon Tetrachloride	ND	0.0025	0.00072	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chlorobenzene	ND	0.0025	0.00060	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chlorodibromomethane	ND	0.0012	0.00082	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chloroethane	ND	0.025	0.0017	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chloroform	ND	0.0050	0.00081	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chloromethane	ND	0.012	0.0015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Cyclohexane	ND	0.012	0.0050	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0050	0.0010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.00090	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00079	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00072	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,4-Dichlorobenzene	ND	0.0025	0.00077	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1-Dichloroethane	ND	0.0025	0.00076	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dichloroethane	ND	0.0025	0.00085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1-Dichloroethylene	ND	0.0050	0.0012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.00086	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.00074	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dichloropropane	ND	0.0025	0.00076	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00094	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00096	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	0.0010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Ethanol	ND	0.25	0.050	mg/Kg dry	1	V-05	UJ	SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Ethylbenzene	ND	0.0025	0.00071	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
2-Hexanone (MBK)	ND	0.025	0.0085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00096	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	0.00080	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Methyl Acetate	ND	0.0025	0.0016	mg/Kg dry	1			SW-846 8260D	11/5/24	11/5/24 11:21	MFF

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Methyl Cyclohexane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Methylene Chloride	ND	0.025	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Naphthalene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
n-Propylbenzene	ND	0.0025	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Styrene	ND	0.0025	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Tetrachloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Toluene	ND	0.0025	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,1-Trichloroethane	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,2-Trichloroethane	ND	0.0025	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Trichloroethylene	ND	0.0025	0.00093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,3-Trichloropropane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,4-Trimethylbenzene	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,3,5-Trimethylbenzene	ND	0.0025	0.00099	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Vinyl Chloride	ND	0.012	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
m+p Xylene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
o-Xylene	ND	0.0025	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Xylenes (total)	ND	0.0025	0.0025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.9	70-130		11/5/24 11:21
Toluene-d8	99.8	70-130		11/5/24 11:21
4-Bromofluorobenzene	97.2	70-130		11/5/24 11:21

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.056	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Atrazine	ND	0.82	0.054	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzaldehyde	ND	0.42	0.067	mg/Kg dry	1	V-05	UJ	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Biphenyl	ND	0.82	0.053	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Caprolactam	ND	0.42	0.072	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Acenaphthene	ND	0.21	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Acenaphthylene	ND	0.21	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Acetophenone	ND	0.42	0.043	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Aniline	ND	0.42	0.072	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Anthracene	ND	0.21	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(a)anthracene	ND	0.21	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(a)pyrene	ND	0.21	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(b)fluoranthene	ND	0.21	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(g,h,i)perylene	ND	0.21	0.060	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(k)fluoranthene	ND	0.21	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Bis(2-chloroethoxy)methane	ND	0.42	0.045	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Bis(2-chloroethyl)ether	ND	0.42	0.059	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.42	0.26	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.049	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Bromophenylphenylether	ND	0.42	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Butylbenzylphthalate	ND	0.42	0.046	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Carbazole	ND	0.21	0.042	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Chloroaniline	ND	0.81	0.074	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Chloro-3-methylphenol	ND	0.81	0.043	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Chloronaphthalene	ND	0.42	0.036	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Chlorophenol	ND	0.42	0.042	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Chlorophenylphenylether	ND	0.42	0.035	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Chrysene	ND	0.21	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Dibenz(a,h)anthracene	ND	0.21	0.057	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Dibenzofuran	ND	0.42	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Di-n-butylphthalate	ND	0.42	0.16	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
3,3-Dichlorobenzidine	ND	0.21	0.090	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dichlorophenol	ND	0.42	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Diethylphthalate	ND	0.42	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dimethylphenol	ND	0.42	0.096	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Dimethylphthalate	ND	0.42	0.039	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4,6-Dinitro-2-methylphenol	ND	0.42	0.33	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dinitrophenol	ND	0.81	0.32	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dinitrotoluene	ND	0.42	0.042	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,6-Dinitrotoluene	ND	0.42	0.044	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Di-n-octylphthalate	ND	0.42	0.059	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Fluoranthene	0.045	0.21	0.034	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Fluorene	ND	0.21	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Hexachlorobenzene	ND	0.42	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 11:22	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Hexachlorocyclopentadiene	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Hexachloroethane	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Indeno(1,2,3-cd)pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Isophorone	ND	0.42	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
1-Methylnaphthalene	ND	0.21	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Methylnaphthalene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Methylphenol	ND	0.42	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
3/4-Methylphenol	ND	0.42	0.055	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Naphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Nitroaniline	ND	0.42	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
3-Nitroaniline	ND	0.42	0.087	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Nitroaniline	ND	0.42	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Nitrobenzene	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Nitrophenol	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Nitrophenol	ND	0.81	0.11	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
N-Nitrosodi-n-propylamine	ND	0.42	0.058	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Pentachlorophenol	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Phenanthrene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Phenol	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Pyrene	0.047	0.21	0.043	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Pyridine	ND	0.42	0.049	mg/Kg dry	1	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4,5-Trichlorophenol	ND	0.42	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4,6-Trichlorophenol	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	69.2	30-130		11/12/24 11:22
Phenol-d6	80.3	30-130		11/12/24 11:22
Nitrobenzene-d5	74.7	30-130		11/12/24 11:22
2-Fluorobiphenyl	69.6	30-130		11/12/24 11:22
2,4,6-Tribromophenol	88.6	30-130		11/12/24 11:22
p-Terphenyl-d14	78.9	30-130		11/12/24 11:22

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.061	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 20:46	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	32.0	15-110		11/15/24 20:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.5	8-130		12/4/24 13:20
13C5-PFPeA	102	35-130		12/4/24 13:20
13C5-PFHxA	105	40-130		12/4/24 13:20
13C4-PFHpA	101	40-130		12/4/24 13:20
13C8-PFOA	106	40-130		12/4/24 13:20
13C9-PFNA	99.2	40-130		12/4/24 13:20
13C6-PFDA	104	40-130		12/4/24 13:20
13C7-PFUnA	107	40-130		12/4/24 13:20
13C2-PFDoA	105	40-130		12/4/24 13:20
13C2-PFTeDA	109	20-130		12/4/24 13:20
13C3-PFBS	92.9	40-135		12/4/24 13:20
13C3-PFHxS	96.2	40-130		12/4/24 13:20
13C8-PFOS	101	40-130		12/4/24 13:20
13C2-4:2FTS	97.7	40-165		12/4/24 13:20
13C2-6:2FTS	102	40-215		12/4/24 13:20
13C2-8:2FTS	92.2	40-275		12/4/24 13:20
13C8-PFOSA	88.1	40-130		12/4/24 13:20
D3-NMeFOSA	87.5	10-130		12/4/24 13:20
D5-NEtFOSA	93.9	10-130		12/4/24 13:20
D3-NMeFOSAA	93.1	40-135		12/4/24 13:20
D5-NEtFOSAA	94.2	40-150		12/4/24 13:20
D7-NMeFOSE	101	20-130		12/4/24 13:20
D9-NEtFOSE	108	15-130		12/4/24 13:20
13C3-HFPO-DA	106	40-130		12/4/24 13:20

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
gamma-Chlordane [1]	ND	0.0059	0.0026	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Aldrin [1]	ND	0.0059	0.00058	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
alpha-BHC [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
beta-BHC [1]	ND	0.0059	0.0032	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
delta-BHC [1]	ND	0.0059	0.0031	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
gamma-BHC (Lindane) [1]	ND	0.0024	0.00082	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
4,4'-DDD [1]	ND	0.0048	0.0010	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
4,4'-DDE [1]	ND	0.0048	0.00053	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
4,4'-DDT [1]	ND	0.0048	0.00061	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Dieldrin [1]	ND	0.0048	0.00057	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endosulfan I [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endosulfan II [1]	ND	0.0095	0.0026	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endosulfan sulfate [1]	ND	0.0095	0.0023	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endrin [1]	ND	0.0095	0.0030	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endrin aldehyde [1]	ND	0.0095	0.0023	mg/Kg dry	1		SW-846 8081B	11/11/24	11/23/24 23:22	TG
Endrin ketone [1]	ND	0.0095	0.0024	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Heptachlor [1]	ND	0.0059	0.00065	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Heptachlor epoxide [1]	ND	0.0059	0.00069	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Methoxychlor [1]	ND	0.059	0.0070	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Toxaphene [1]	ND	0.12	0.050	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.4	30-150		11/26/24 4:01
Decachlorobiphenyl [1]	83.1	30-150		11/23/24 23:22
Decachlorobiphenyl [2]	72.4	30-150		11/26/24 4:01
Decachlorobiphenyl [2]	82.5	30-150		11/23/24 23:22
Tetrachloro-m-xylene [1]	72.8	30-150		11/23/24 23:22
Tetrachloro-m-xylene [1]	66.8	30-150		11/26/24 4:01
Tetrachloro-m-xylene [2]	61.3	30-150		11/26/24 4:01
Tetrachloro-m-xylene [2]	79.0	30-150		11/23/24 23:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1221 [1]	ND	0.099	0.046	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1232 [1]	ND	0.099	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1242 [1]	ND	0.099	0.027	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1248 [1]	ND	0.099	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1254 [1]	ND	0.099	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1260 [1]	ND	0.099	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1262 [1]	ND	0.099	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1268 [1]	ND	0.099	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		11/17/24 18:18
Decachlorobiphenyl [2]	92.6	30-150		11/17/24 18:18
Tetrachloro-m-xylene [1]	73.7	30-150		11/17/24 18:18
Tetrachloro-m-xylene [2]	79.7	30-150		11/17/24 18:18

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6000	20	6.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Antimony	ND	2.0	0.54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Arsenic	14	4.0	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Barium	12	2.0	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Beryllium	0.68	0.20	0.061	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Cadmium	ND	0.40	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Calcium	2300	20	10	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Chromium	12	0.81	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Cobalt	4.9	2.0	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Copper	3.5	1.6	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Iron	9200	20	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Lead	27	0.60	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Magnesium	1300	20	4.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Manganese	51	0.40	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Mercury	0.040	0.030	0.014	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:15	MJH
Nickel	3.9	0.81	0.56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Potassium	500	200	50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:36	HNN
Selenium	ND	4.0	1.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Sodium	2000	200	60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Vanadium	46	0.81	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Zinc	19	0.81	0.71	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05 UJ	SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Tetrachloroethylene	0.43	1.0	0.17	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.6	70-130		11/6/24 15:44
Toluene-d8	102	70-130		11/6/24 15:44
4-Bromofluorobenzene	102	70-130		11/6/24 15:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Atrazine	ND	19	1.6	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzaldehyde	ND	9.5	0.68	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Biphenyl	ND	19	0.87	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Acetophenone	ND	9.5	0.47	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Aniline	ND	19	8.5	µg/L	1	V-05	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Anthracene	ND	4.7	0.51	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.54	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.5	0.71	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Bromophenylphenylether	ND	9.5	0.67	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Butylbenzylphthalate	ND	9.5	0.37	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Carbazole	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Chlorophenylphenylether	ND	9.5	0.82	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Chrysene	ND	4.7	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Di-n-butylphthalate	ND	9.5	0.47	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
3,3-Dichlorobenzidine	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dichlorophenol	ND	9.5	0.44	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Dimethylphthalate	ND	9.5	0.41	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04, V-05	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Fluorene	ND	4.7	0.72	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Hexachlorobenzene	ND	9.5	0.68	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Hexachloroethane	ND	9.5	1.2	µg/L	1	L-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Isophorone	ND	9.5	0.51	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
1-Methylnaphthalene	ND	4.7	0.93	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Methylphenol	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
3/4-Methylphenol	ND	9.5	0.45	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Naphthalene	ND	4.7	0.86	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Nitroaniline	ND	9.5	0.41	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Nitrophenol	ND	9.5	0.51	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.45	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Pentachlorophenol	ND	9.5	0.45	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Phenol	ND	9.5	0.56	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Pyrene	ND	4.7	0.44	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	UJ	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:01	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	17.5	15-110		11/7/24 15:01
Phenol-d6	17.7	15-110		11/7/24 15:01
Nitrobenzene-d5	66.7	30-130		11/7/24 15:01
2-Fluorobiphenyl	65.9	30-130		11/7/24 15:01
2,4,6-Tribromophenol	31.1	15-110		11/7/24 15:01
p-Terphenyl-d14	92.1	30-130		11/7/24 15:01

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.12	0.22	0.035	µg/L	1	J	SW-846 8270E	11/4/24	11/12/24 5:31	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	27.1	15-110		11/12/24 5:31	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	6.7	0.83	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoropentanoic acid (PFPeA)	16	3.3	0.46	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorohexanoic acid (PFHxA)	13	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoroheptanoic acid (PFHpA)	9.9	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorooctanoic acid (PFOA)	22	1.7	0.43	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorononanoic acid (PFNA)	4.3	1.7	0.68	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorodecanoic acid (PFDA)	1.1	1.7	0.40	ng/L	1	J	Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.53	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	1.7	0.36	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.3	1.7	0.65	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.88	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorooctanesulfonic acid (PFOS)	8.1	1.7	0.41	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.4	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.34	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.67	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.88	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.97	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.7	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.3	2.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	42	9.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.3	0.45	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	83.0	5-130		11/26/24 15:37
13C5-PFPeA	84.7	40-130		11/26/24 15:37
13C5-PFHxA	85.0	40-130		11/26/24 15:37
13C4-PFHpA	76.2	40-130		11/26/24 15:37
13C8-PFOA	82.5	40-130		11/26/24 15:37
13C9-PFNA	76.8	40-130		11/26/24 15:37
13C6-PFDA	88.2	40-130		11/26/24 15:37
13C7-PFUnA	83.1	30-130		11/26/24 15:37
13C2-PFDoA	82.8	10-130		11/26/24 15:37
13C2-PFTeDA	71.3	10-130		11/26/24 15:37
13C3-PFBS	81.7	40-135		11/26/24 15:37
13C3-PFHxS	76.6	40-130		11/26/24 15:37
13C8-PFOS	82.0	40-130		11/26/24 15:37
13C2-4:2FTS	106	40-200		11/26/24 15:37
13C2-6:2FTS	74.2	40-200		11/26/24 15:37
13C2-8:2FTS	68.5	40-300		11/26/24 15:37
13C8-PFOSA	66.1	40-130		11/26/24 15:37
D3-NMeFOSA	60.7	10-130		11/26/24 15:37
D5-NEtFOSA	57.4	10-130		11/26/24 15:37
D3-NMeFOSAA	63.9	40-170		11/26/24 15:37
D5-NEtFOSAA	65.3	25-135		11/26/24 15:37
D7-NMeFOSE	59.1	10-130		11/26/24 15:37
D9-NEtFOSE	52.9	10-130		11/26/24 15:37
13C3-HFPO-DA	86.7	40-130		11/26/24 15:37

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.053	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Barium	0.038	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Calcium	37	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Iron	0.17	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Lead	0.0055	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Magnesium	49	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Manganese	0.023	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:12	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Potassium	16	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Sodium	390	2.0	0.38	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Vanadium	0.0065	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	MS-09, V-05 UJ	SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Ethanol	ND	50	20	µg/L	1	MS-09 UJ	SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Tetrachloroethylene	0.28	1.0	0.17	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.2	70-130		11/6/24 16:10
Toluene-d8	100	70-130		11/6/24 16:10
4-Bromofluorobenzene	98.9	70-130		11/6/24 16:10

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.7	µg/L	1	R-06, MS-09	X	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Atrazine	ND	20	1.6	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzaldehyde	ND	10	0.73	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Biphenyl	ND	20	0.92	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Caprolactam	ND	10	0.72	µg/L	1	L-04, MS-09	UJ	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Acenaphthene	ND	5.0	0.79	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Acenaphthylene	ND	5.0	0.64	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Acetophenone	ND	10	0.50	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Aniline	ND	20	9.0	µg/L	1	V-05	UJ	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Anthracene	ND	5.0	0.54	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(a)anthracene	ND	5.0	0.38	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(a)pyrene	ND	5.0	0.44	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(b)fluoranthene	ND	5.0	0.32	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(g,h,i)perylene	ND	5.0	0.52	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(k)fluoranthene	ND	5.0	0.46	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Bis(2-chloroethoxy)methane	ND	10	0.58	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Bis(2-chloroethyl)ether	ND	10	0.46	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.75	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.32	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Bromophenylphenylether	ND	10	0.71	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Carbazole	ND	10	0.46	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Chloroaniline	ND	10	5.2	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Chloro-3-methylphenol	ND	10	0.64	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Chloronaphthalene	ND	10	0.82	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Chlorophenol	ND	10	0.41	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Chlorophenylphenylether	ND	10	0.87	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Chrysene	ND	5.0	0.46	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Dibenz(a,h)anthracene	ND	5.0	0.48	µg/L	1	V-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Dibenzofuran	ND	5.0	0.86	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Di-n-butylphthalate	ND	10	0.50	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
3,3-Dichlorobenzidine	ND	10	0.46	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dichlorophenol	ND	10	0.47	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Diethylphthalate	ND	10	0.56	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dimethylphenol	ND	10	0.41	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Dimethylphthalate	ND	10	0.44	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.3	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dinitrophenol	ND	10	1.3	µg/L	1	MS-09, V-04, V-05	X	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dinitrotoluene	ND	10	0.35	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,6-Dinitrotoluene	ND	10	0.55	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Fluoranthene	ND	5.0	0.57	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Fluorene	ND	5.0	0.76	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Hexachlorobenzene	ND	10	0.72	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:22	BGL

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Hexachlorocyclopentadiene	ND	10	2.8	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Hexachloroethane	ND	10	1.3	µg/L	1	L-04, MS-09 UJ	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	0.48	µg/L	1	V-04 UJ	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Isophorone	ND	10	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
1-Methylnaphthalene	ND	5.0	0.98	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Methylnaphthalene	ND	5.0	0.94	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Methylphenol	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
3/4-Methylphenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Naphthalene	ND	5.0	0.91	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Nitroaniline	ND	10	0.50	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
3-Nitroaniline	ND	10	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Nitroaniline	ND	10	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Nitrobenzene	ND	10	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Nitrophenol	ND	10	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1	MS-09, R-06 X	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
N-Nitrosodi-n-propylamine	ND	10	0.66	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Pentachlorophenol	ND	10	0.48	µg/L	1	R-06, MS-09 X	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Phenanthrene	ND	5.0	0.72	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Phenol	ND	10	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Pyrene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Pyridine	ND	20	5.2	µg/L	1	MS-09, V-34 X	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4,5-Trichlorophenol	ND	10	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	21.4	15-110		11/7/24 15:22
Phenol-d6	24.0	15-110		11/7/24 15:22
Nitrobenzene-d5	81.5	30-130		11/7/24 15:22
2-Fluorobiphenyl	79.2	30-130		11/7/24 15:22
2,4,6-Tribromophenol	30.8	15-110		11/7/24 15:22
p-Terphenyl-d14	98.9	30-130		11/7/24 15:22

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.13	0.19	0.032	µg/L	1	J	SW-846 8270E	11/5/24	11/12/24 5:51	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.2	15-110		11/12/24 5:51	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	6.5	0.81	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoropentanoic acid (PFPeA)	14	3.2	0.45	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorohexanoic acid (PFHxA)	12	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoroheptanoic acid (PFHpA)	9.2	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorooctanoic acid (PFOA)	19	1.6	0.42	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorononanoic acid (PFNA)	4.5	1.6	0.66	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorodecanoic acid (PFDA)	1.7	1.6	0.39	ng/L	1	J	Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.1	1.6	0.63	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorooctanesulfonic acid (PFOS)	13	1.6	0.40	ng/L	1	J	Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.57	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.58	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.44	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.1	5-130		11/26/24 15:46
13C5-PFPeA	81.8	40-130		11/26/24 15:46
13C5-PFHxA	81.2	40-130		11/26/24 15:46
13C4-PFHpA	75.8	40-130		11/26/24 15:46
13C8-PFOA	89.8	40-130		11/26/24 15:46
13C9-PFNA	75.6	40-130		11/26/24 15:46
13C6-PFDA	85.5	40-130		11/26/24 15:46
13C7-PFUnA	71.7	30-130		11/26/24 15:46
13C2-PFDoA	72.8	10-130		11/26/24 15:46
13C2-PFTeDA	64.4	10-130		11/26/24 15:46
13C3-PFBS	84.1	40-135		11/26/24 15:46
13C3-PFHxS	86.0	40-130		11/26/24 15:46
13C8-PFOS	73.3	40-130		11/26/24 15:46
13C2-4:2FTS	97.8	40-200		11/26/24 15:46
13C2-6:2FTS	70.9	40-200		11/26/24 15:46
13C2-8:2FTS	73.7	40-300		11/26/24 15:46
13C8-PFOSA	64.4	40-130		11/26/24 15:46
D3-NMeFOSA	60.3	10-130		11/26/24 15:46
D5-NEtFOSA	49.3	10-130		11/26/24 15:46
D3-NMeFOSAA	60.9	40-170		11/26/24 15:46
D5-NEtFOSAA	65.8	25-135		11/26/24 15:46
D7-NMeFOSE	59.0	10-130		11/26/24 15:46
D9-NEtFOSE	52.5	10-130		11/26/24 15:46
13C3-HFPO-DA	84.9	40-130		11/26/24 15:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.098	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Barium	0.034	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Calcium	39	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Iron	0.27	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Lead	0.0057	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Magnesium	59	0.050	0.016	mg/L	1	MS-19	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Manganese	0.025	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:18	AAJ
Nickel	0.0050	0.010	0.0046	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Potassium	19	2.0	0.47	mg/L	1	MS-19	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Sodium	520	20	3.8	mg/L	10	MS-19	SW-846 6010D	11/6/24	11/9/24 11:03	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Vanadium	0.0065	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.34	4.7	0.19	mg/Kg dry	1	V-05, J	UJ	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Amyl Alcohol (TAA)	ND	1.9	0.12	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.19	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.047	0.014	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Benzene	ND	0.093	0.013	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromochloromethane	ND	0.093	0.030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromodichloromethane	ND	0.093	0.017	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromoform	ND	0.093	0.028	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromomethane	ND	0.19	0.14	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
2-Butanone (MEK)	ND	1.9	0.13	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Butyl Alcohol (TBA)	ND	1.9	0.32	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
n-Butylbenzene	ND	0.093	0.014	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
sec-Butylbenzene	ND	0.093	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Butylbenzene	ND	0.093	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.047	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Carbon Disulfide	ND	0.47	0.14	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Carbon Tetrachloride	ND	0.093	0.018	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chlorobenzene	ND	0.093	0.017	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chlorodibromomethane	ND	0.047	0.012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chloroethane	ND	0.19	0.043	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chloroform	ND	0.19	0.018	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chloromethane	ND	0.19	0.046	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Cyclohexane	ND	0.19	0.16	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.47	0.059	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dibromoethane (EDB)	ND	0.047	0.012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dichlorobenzene	ND	0.093	0.016	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,3-Dichlorobenzene	ND	0.093	0.014	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,4-Dichlorobenzene	ND	0.093	0.016	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.19	0.019	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1-Dichloroethane	ND	0.093	0.014	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dichloroethane	ND	0.093	0.012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1-Dichloroethylene	ND	0.093	0.017	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
cis-1,2-Dichloroethylene	ND	0.093	0.019	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
trans-1,2-Dichloroethylene	ND	0.093	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dichloropropane	ND	0.093	0.016	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
cis-1,3-Dichloropropene	ND	0.047	0.012	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
trans-1,3-Dichloropropene	ND	0.047	0.013	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Diisopropyl Ether (DIPE)	ND	0.047	0.016	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Ethanol	ND	19	1.9	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Ethylbenzene	ND	0.093	0.013	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
2-Hexanone (MBK)	ND	0.93	0.13	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Isopropylbenzene (Cumene)	ND	0.093	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.093	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Methyl Acetate	1.6	0.93	0.045	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:26	EEH

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Methyl Cyclohexane	ND	0.093	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Methylene Chloride	ND	0.47	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.93	0.13	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Naphthalene	0.029	0.19	0.023	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
n-Propylbenzene	ND	0.093	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Styrene	ND	0.093	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.047	0.0095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Tetrachloroethylene	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Toluene	ND	0.093	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,3-Trichlorobenzene	ND	0.47	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,4-Trichlorobenzene	ND	0.093	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,1-Trichloroethane	ND	0.093	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,2-Trichloroethane	ND	0.093	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Trichloroethylene	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Trichlorofluoromethane (Freon 11)	ND	0.19	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,3-Trichloropropane	ND	0.19	0.025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,4-Trimethylbenzene	0.074	0.093	0.015	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,3,5-Trimethylbenzene	0.029	0.093	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Vinyl Chloride	ND	0.19	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
m+p Xylene	0.029	0.19	0.023	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
o-Xylene	0.032	0.093	0.014	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Xylenes (total)	ND	0.093	0.093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.8	70-130		11/6/24 17:26
Toluene-d8	114	70-130		11/6/24 17:26
4-Bromofluorobenzene	99.3	70-130		11/6/24 17:26

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.99	0.068	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Atrazine	ND	0.99	0.064	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzaldehyde	ND	0.50	0.080	mg/Kg dry	1	V-05 UJ	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Biphenyl	ND	0.99	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Caprolactam	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Acenaphthene	ND	0.25	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Acenaphthylene	ND	0.25	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Acetophenone	ND	0.50	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Aniline	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Anthracene	0.064	0.25	0.044	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(a)anthracene	0.19	0.25	0.041	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(a)pyrene	0.27	0.25	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(b)fluoranthene	0.54	0.25	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(g,h,i)perylene	0.27	0.25	0.072	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(k)fluoranthene	0.18	0.25	0.045	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Bis(2-chloroethoxy)methane	ND	0.50	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Bis(2-chloroethyl)ether	ND	0.50	0.071	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.50	0.32	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Bis(2-Ethylhexyl)phthalate	0.17	0.50	0.059	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Bromophenylphenylether	ND	0.50	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Butylbenzylphthalate	ND	0.50	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Carbazole	0.068	0.25	0.051	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Chloroaniline	ND	0.97	0.089	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Chloro-3-methylphenol	ND	0.97	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Chloronaphthalene	ND	0.50	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Chlorophenol	ND	0.50	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Chlorophenylphenylether	ND	0.50	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Chrysene	0.35	0.25	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Dibenz(a,h)anthracene	ND	0.25	0.069	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Dibenzofuran	ND	0.50	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Di-n-butylphthalate	ND	0.50	0.19	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
3,3-Dichlorobenzidine	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dichlorophenol	ND	0.50	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Diethylphthalate	ND	0.50	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dimethylphenol	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Dimethylphthalate	ND	0.50	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4,6-Dinitro-2-methylphenol	ND	0.50	0.39	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dinitrophenol	ND	0.97	0.38	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dinitrotoluene	ND	0.50	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,6-Dinitrotoluene	ND	0.50	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Di-n-octylphthalate	ND	0.50	0.071	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Fluoranthene	0.45	0.25	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Fluorene	ND	0.25	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Hexachlorobenzene	ND	0.50	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Hexachlorocyclopentadiene	ND	0.50	0.33	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Hexachloroethane	ND	0.50	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Indeno(1,2,3-cd)pyrene	0.28	0.25	0.081	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Isophorone	ND	0.50	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
1-Methylnaphthalene	ND	0.25	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Methylnaphthalene	ND	0.25	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Methylphenol	ND	0.50	0.067	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
3/4-Methylphenol	ND	0.50	0.066	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Naphthalene	ND	0.25	0.088	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Nitroaniline	ND	0.50	0.061	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
3-Nitroaniline	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Nitroaniline	ND	0.50	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Nitrobenzene	ND	0.50	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Nitrophenol	ND	0.50	0.049	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Nitrophenol	ND	0.97	0.13	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.50	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
N-Nitrosodi-n-propylamine	ND	0.50	0.070	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Pentachlorophenol	ND	0.50	0.18	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Phenanthrene	0.13	0.25	0.044	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Phenol	ND	0.50	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Pyrene	0.46	0.25	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Pyridine	ND	0.50	0.058	mg/Kg dry	1	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4,5-Trichlorophenol	ND	0.50	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4,6-Trichlorophenol	ND	0.50	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	73.9	30-130		11/12/24 11:47
Phenol-d6	79.8	30-130		11/12/24 11:47
Nitrobenzene-d5	82.7	30-130		11/12/24 11:47
2-Fluorobiphenyl	71.0	30-130		11/12/24 11:47
2,4,6-Tribromophenol	89.1	30-130		11/12/24 11:47
p-Terphenyl-d14	72.9	30-130		11/12/24 11:47

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.074	0.059	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 21:07	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	33.9	15-110		11/15/24 21:07

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoroundecanoic acid (PFUnA)	0.085	0.20	0.082	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorododecanoic acid (PFDoA)	0.13	0.20	0.074	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorotridecanoic acid (PFTrDA)	0.21	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorotetradecanoic acid (PFTeDA)	0.14	0.20	0.067	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorobutanesulfonic acid (PFBS)	0.39	0.20	0.063	µg/kg dry	1	PF-23	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorooctanesulfonic acid (PFOS)	0.14	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.4	8-130		12/4/24 1:35
13C5-PFPeA	97.2	35-130		12/4/24 1:35
13C5-PFHxA	99.2	40-130		12/4/24 1:35
13C4-PFHpA	101	40-130		12/4/24 1:35
13C8-PFOA	101	40-130		12/4/24 1:35
13C9-PFNA	98.1	40-130		12/4/24 1:35
13C6-PFDA	109	40-130		12/4/24 1:35
13C7-PFUnA	103	40-130		12/4/24 1:35
13C2-PFDoA	105	40-130		12/4/24 1:35
13C2-PFTeDA	111	20-130		12/4/24 1:35
13C3-PFBS	98.9	40-135		12/4/24 1:35
13C3-PFHxS	98.4	40-130		12/4/24 1:35
13C8-PFOS	99.1	40-130		12/4/24 1:35
13C2-4:2FTS	120	40-165		12/4/24 1:35
13C2-6:2FTS	126	40-215		12/4/24 1:35
13C2-8:2FTS	147	40-275		12/4/24 1:35
13C8-PFOSA	83.5	40-130		12/4/24 1:35
D3-NMeFOSA	84.5	10-130		12/4/24 1:35
D5-NEtFOSA	78.3	10-130		12/4/24 1:35
D3-NMeFOSAA	87.7	40-135		12/4/24 1:35
D5-NEtFOSAA	99.8	40-150		12/4/24 1:35
D7-NMeFOSE	89.9	20-130		12/4/24 1:35
D9-NEtFOSE	88.1	15-130		12/4/24 1:35
13C3-HFPO-DA	105	40-130		12/4/24 1:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.073	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
gamma-Chlordane [1]	ND	0.073	0.032	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Aldrin [1]	ND	0.073	0.0071	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
alpha-BHC [1]	ND	0.073	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
beta-BHC [1]	ND	0.073	0.039	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
delta-BHC [1]	ND	0.073	0.038	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.010	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
4,4'-DDD [1]	ND	0.058	0.012	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
4,4'-DDE [2]	ND	0.058	0.0094	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
4,4'-DDT [1]	ND	0.058	0.0075	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Dieldrin [1]	ND	0.058	0.0069	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endosulfan I [1]	ND	0.073	0.035	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endosulfan II [1]	ND	0.12	0.031	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endosulfan sulfate [1]	ND	0.12	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endrin [1]	ND	0.12	0.037	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endrin aldehyde [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 23:34	TG
Endrin ketone [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Heptachlor [1]	ND	0.073	0.0080	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Heptachlor epoxide [1]	ND	0.073	0.0084	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Methoxychlor [1]	ND	0.73	0.086	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Toxaphene [1]	ND	1.5	0.61	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.8	30-150		11/23/24 23:34
Decachlorobiphenyl [1]	86.5	30-150		11/26/24 4:30
Decachlorobiphenyl [2]	86.4	30-150		11/26/24 4:30
Decachlorobiphenyl [2]	87.8	30-150		11/23/24 23:34
Tetrachloro-m-xylene [1]	76.5	30-150		11/23/24 23:34
Tetrachloro-m-xylene [1]	86.3	30-150		11/26/24 4:30
Tetrachloro-m-xylene [2]	108	30-150		11/23/24 23:34
Tetrachloro-m-xylene [2]	77.9	30-150		11/26/24 4:30

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.030	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1221 [1]	ND	0.12	0.056	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1232 [1]	ND	0.12	0.030	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1242 [1]	ND	0.12	0.033	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1248 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1254 [2]	ND	0.12	0.046	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1260 [1]	ND	0.12	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1262 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1268 [1]	ND	0.12	0.032	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.0	30-150		11/17/24 18:35
Decachlorobiphenyl [2]	59.2	30-150		11/17/24 18:35
Tetrachloro-m-xylene [1]	66.9	30-150		11/17/24 18:35
Tetrachloro-m-xylene [2]	68.5	30-150		11/17/24 18:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4600	24	7.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Antimony	ND	2.4	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Arsenic	5.2	4.7	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Barium	19	2.4	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Beryllium	0.28	0.24	0.072	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Cadmium	ND	0.47	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Calcium	1500	24	12	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Chromium	15	0.95	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Cobalt	2.6	2.4	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Copper	38	1.9	1.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Iron	9100	24	11	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Lead	57	0.71	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Magnesium	2600	24	5.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Manganese	110	0.47	0.27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Mercury	0.11	0.038	0.017	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:17	MJH
Nickel	7.3	0.95	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Potassium	1100	240	59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:44	HNN
Selenium	ND	4.7	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Silver	ND	0.47	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Sodium	4700	240	70	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Thallium	ND	2.4	0.76	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Vanadium	17	0.95	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Zinc	77	0.95	0.83	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.2			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.68	0.51	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.2	0.21	mg/Kg dry	1	V-05 UJ	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Amyl Alcohol (TAA)	ND	2.1	0.13	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.21	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.052	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Benzene	0.69	0.10	0.015	mg/Kg dry	1	V-06 UJ	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromochloromethane	ND	0.10	0.034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromodichloromethane	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromoform	ND	0.10	0.031	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromomethane	ND	0.21	0.16	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
2-Butanone (MEK)	ND	2.1	0.15	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Butyl Alcohol (TBA)	ND	2.1	0.36	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
n-Butylbenzene	0.082	0.10	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
sec-Butylbenzene	0.040	0.10	0.017	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Butylbenzene	0.13	0.10	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.052	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Carbon Disulfide	ND	0.52	0.16	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Carbon Tetrachloride	ND	0.10	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chlorobenzene	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chlorodibromomethane	ND	0.052	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chloroethane	ND	0.21	0.048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chloroform	ND	0.21	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chloromethane	ND	0.21	0.052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Cyclohexane	ND	0.21	0.19	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.52	0.066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dibromoethane (EDB)	ND	0.052	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dichlorobenzene	0.030	0.10	0.018	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,3-Dichlorobenzene	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,4-Dichlorobenzene	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.21	0.021	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1-Dichloroethane	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dichloroethane	ND	0.10	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1-Dichloroethylene	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
cis-1,2-Dichloroethylene	ND	0.10	0.021	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
trans-1,2-Dichloroethylene	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dichloropropane	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
cis-1,3-Dichloropropene	ND	0.052	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
trans-1,3-Dichloropropene	ND	0.052	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Diisopropyl Ether (DIPE)	ND	0.052	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Ethanol	ND	21	2.1	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Ethylbenzene	0.41	0.10	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
2-Hexanone (MBK)	ND	1.0	0.14	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Isopropylbenzene (Cumene)	0.075	0.10	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Methyl Acetate	0.43	1.0	0.050	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Methyl Cyclohexane	ND	0.10	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Methylene Chloride	ND	0.52	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.14	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Naphthalene	0.19	0.21	0.026	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
n-Propylbenzene	0.27	0.10	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Styrene	ND	0.10	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,2,2-Tetrachloroethane	ND	0.052	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Tetrachloroethylene	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Toluene	0.081	0.10	0.012	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,3-Trichlorobenzene	ND	0.52	0.023	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,4-Trichlorobenzene	ND	0.10	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,1-Trichloroethane	ND	0.10	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,2-Trichloroethane	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Trichloroethylene	ND	0.10	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Trichlorofluoromethane (Freon 11)	ND	0.21	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,3-Trichloropropane	ND	0.21	0.028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,4-Trimethylbenzene	0.21	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,3,5-Trimethylbenzene	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Vinyl Chloride	ND	0.21	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
m+p Xylene	0.23	0.21	0.026	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
o-Xylene	0.019	0.10	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Xylenes (total)	0.23	0.10	0.10	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		11/6/24 18:43
Toluene-d8	98.8	70-130		11/6/24 18:43
4-Bromofluorobenzene	111	70-130		11/6/24 18:43

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	2.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Atrazine	ND	2.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzaldehyde	ND	1.0	0.16	mg/Kg dry	2	V-05 UJ	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Biphenyl	ND	2.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Caprolactam	ND	1.0	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Acenaphthene	ND	0.51	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Acenaphthylene	ND	0.51	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Acetophenone	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Aniline	ND	1.0	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Anthracene	0.13	0.51	0.089	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(a)anthracene	0.51	0.51	0.082	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(a)pyrene	0.87	0.51	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(b)fluoranthene	1.1	0.51	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(g,h,i)perylene	0.52	0.51	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(k)fluoranthene	0.41	0.51	0.091	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Bis(2-chloroethoxy)methane	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Bis(2-chloroethyl)ether	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,2'-oxybis(1-Chloropropane)	ND	1.0	0.64	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Bis(2-Ethylhexyl)phthalate	0.46	1.0	0.12	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Bromophenylphenylether	ND	1.0	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Butylbenzylphthalate	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Carbazole	ND	0.51	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Chloroaniline	ND	2.0	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Chloro-3-methylphenol	ND	2.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Chloronaphthalene	ND	1.0	0.088	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Chlorophenol	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Chlorophenylphenylether	ND	1.0	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Chrysene	0.55	0.51	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Dibenz(a,h)anthracene	0.14	0.51	0.14	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Dibenzofuran	ND	1.0	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Di-n-butylphthalate	ND	1.0	0.38	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
3,3-Dichlorobenzidine	ND	0.51	0.22	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dichlorophenol	ND	1.0	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Diethylphthalate	ND	1.0	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dimethylphenol	ND	1.0	0.23	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Dimethylphthalate	ND	1.0	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4,6-Dinitro-2-methylphenol	ND	1.0	0.80	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dinitrophenol	ND	2.0	0.78	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dinitrotoluene	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,6-Dinitrotoluene	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Di-n-octylphthalate	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Fluoranthene	1.1	0.51	0.083	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Fluorene	ND	0.51	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Hexachlorobenzene	ND	1.0	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	1.0	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Hexachlorocyclopentadiene	ND	1.0	0.66	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Hexachloroethane	ND	1.0	0.093	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Indeno(1,2,3-cd)pyrene	0.58	0.51	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Isophorone	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
1-Methylnaphthalene	ND	0.51	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Methylnaphthalene	ND	0.51	0.086	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Methylphenol	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
3/4-Methylphenol	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Naphthalene	ND	0.51	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Nitroaniline	ND	1.0	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
3-Nitroaniline	ND	1.0	0.21	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Nitroaniline	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Nitrobenzene	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Nitrophenol	ND	1.0	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Nitrophenol	ND	2.0	0.27	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
N-Nitrosodi-n-propylamine	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Pentachlorophenol	ND	1.0	0.36	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Phenanthrene	0.34	0.51	0.090	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Phenol	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Pyrene	1.6	0.51	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Pyridine	ND	1.0	0.12	mg/Kg dry	2	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
1,2,4,5-Tetrachlorobenzene	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4,5-Trichlorophenol	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4,6-Trichlorophenol	ND	1.0	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.3	30-130		11/12/24 12:12
Phenol-d6	84.6	30-130		11/12/24 12:12
Nitrobenzene-d5	85.1	30-130		11/12/24 12:12
2-Fluorobiphenyl	74.7	30-130		11/12/24 12:12
2,4,6-Tribromophenol	95.4	30-130		11/12/24 12:12
p-Terphenyl-d14	84.5	30-130		11/12/24 12:12

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.075	0.059	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 21:28	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	39.2	15-110		11/15/24 21:28

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorotridecanoic acid (PFTrDA)	0.12	0.20	0.062	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorotetradecanoic acid (PFTeDA)	0.072	0.20	0.066	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorooctanesulfonic acid (PFOS)	0.16	0.20	0.059	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-EtFOSAA (NEtFOSAA)	0.23	0.20	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.0	8-130		12/4/24 1:44
13C5-PFPeA	92.8	35-130		12/4/24 1:44
13C5-PFHxA	95.9	40-130		12/4/24 1:44
13C4-PFHpA	93.0	40-130		12/4/24 1:44
13C8-PFOA	89.0	40-130		12/4/24 1:44
13C9-PFNA	92.4	40-130		12/4/24 1:44
13C6-PFDA	96.9	40-130		12/4/24 1:44
13C7-PFUnA	95.3	40-130		12/4/24 1:44
13C2-PFDoA	96.7	40-130		12/4/24 1:44
13C2-PFTeDA	91.2	20-130		12/4/24 1:44
13C3-PFBS	90.5	40-135		12/4/24 1:44
13C3-PFHxS	90.4	40-130		12/4/24 1:44
13C8-PFOS	92.4	40-130		12/4/24 1:44
13C2-4:2FTS	102	40-165		12/4/24 1:44
13C2-6:2FTS	87.1	40-215		12/4/24 1:44
13C2-8:2FTS	116	40-275		12/4/24 1:44
13C8-PFOSA	80.7	40-130		12/4/24 1:44
D3-NMeFOSA	76.0	10-130		12/4/24 1:44
D5-NEtFOSA	71.5	10-130		12/4/24 1:44
D3-NMeFOSAA	78.1	40-135		12/4/24 1:44
D5-NEtFOSAA	83.3	40-150		12/4/24 1:44
D7-NMeFOSE	88.8	20-130		12/4/24 1:44
D9-NEtFOSE	85.1	15-130		12/4/24 1:44
13C3-HFPO-DA	101	40-130		12/4/24 1:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.071	0.027	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
gamma-Chlordane [1]	ND	0.071	0.031	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Aldrin [1]	ND	0.071	0.0070	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
alpha-BHC [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
beta-BHC [1]	ND	0.071	0.038	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
delta-BHC [1]	ND	0.071	0.038	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0099	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
4,4'-DDD [1]	0.25	0.057	0.012	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
4,4'-DDE [2]	0.050	0.057	0.0093	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 4:58	TG
4,4'-DDT [1]	0.032	0.057	0.0073	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 4:58	TG
Dieldrin [1]	ND	0.057	0.0068	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endosulfan I [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endosulfan II [1]	ND	0.11	0.031	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endosulfan sulfate [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endrin [1]	ND	0.11	0.036	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endrin aldehyde [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 23:46	TG
Endrin ketone [1]	ND	0.11	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Heptachlor [1]	ND	0.071	0.0078	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Heptachlor epoxide [1]	ND	0.071	0.0083	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Methoxychlor [1]	ND	0.71	0.085	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Toxaphene [1]	ND	1.4	0.60	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		11/23/24 23:46
Decachlorobiphenyl [1]	75.4	30-150		11/26/24 4:58
Decachlorobiphenyl [2]	75.9	30-150		11/26/24 4:58
Decachlorobiphenyl [2]	81.3	30-150		11/23/24 23:46
Tetrachloro-m-xylene [1]	63.3	30-150		11/23/24 23:46
Tetrachloro-m-xylene [1]	69.3	30-150		11/26/24 4:58
Tetrachloro-m-xylene [2]	57.2	30-150		11/26/24 4:58
Tetrachloro-m-xylene [2]	69.4	30-150		11/23/24 23:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1221 [1]	ND	0.12	0.055	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1232 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1242 [1]	ND	0.12	0.033	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1248 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1254 [1]	0.25	0.12	0.036	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1260 [2]	0.14	0.12	0.032	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1262 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1268 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		11/17/24 18:54
Decachlorobiphenyl [2]	57.8	30-150		11/17/24 18:54
Tetrachloro-m-xylene [1]	61.9	30-150		11/17/24 18:54
Tetrachloro-m-xylene [2]	68.5	30-150		11/17/24 18:54

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	25	7.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Antimony	ND	2.5	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Arsenic	8.1	4.9	0.69	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Barium	47	2.5	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Beryllium	0.32	0.25	0.075	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Cadmium	0.70	0.49	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Calcium	3000	25	13	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Chromium	19	0.98	0.62	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Cobalt	3.2	2.5	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Copper	57	2.0	1.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Iron	13000	25	11	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Lead	270	0.74	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Magnesium	3400	25	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Manganese	170	0.49	0.28	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Mercury	0.37	0.038	0.017	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:19	MJH
Nickel	9.1	0.98	0.68	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Potassium	1000	250	61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:52	HNN
Selenium	ND	4.9	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Silver	0.41	0.49	0.30	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Sodium	4300	250	73	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Thallium	ND	2.5	0.78	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Vanadium	20	0.98	0.54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Zinc	140	0.98	0.86	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.4			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.67	0.50	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.4	0.098	mg/Kg dry	1	V-05	UJ	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Amyl Alcohol (TAA)	ND	0.96	0.061	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.096	0.0078	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.024	0.0073	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Benzene	0.012	0.048	0.0069	mg/Kg dry	1	V-06, J	UJ	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromochloromethane	ND	0.048	0.015	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromodichloromethane	ND	0.048	0.0089	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromoform	ND	0.048	0.014	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromomethane	ND	0.096	0.071	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
2-Butanone (MEK)	0.078	0.96	0.068	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Butyl Alcohol (TBA)	ND	0.96	0.16	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
n-Butylbenzene	ND	0.048	0.0074	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
sec-Butylbenzene	ND	0.048	0.0078	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Butylbenzene	ND	0.048	0.0079	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.024	0.0076	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Carbon Disulfide	1.3	0.24	0.073	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Carbon Tetrachloride	ND	0.048	0.0093	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chlorobenzene	ND	0.048	0.0085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chlorodibromomethane	ND	0.024	0.0061	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chloroethane	ND	0.096	0.022	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chloroform	ND	0.096	0.0091	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chloromethane	ND	0.096	0.024	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Cyclohexane	ND	0.096	0.085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.24	0.030	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dibromoethane (EDB)	ND	0.024	0.0060	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dichlorobenzene	ND	0.048	0.0084	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,3-Dichlorobenzene	ND	0.048	0.0074	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,4-Dichlorobenzene	ND	0.048	0.0080	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.096	0.0096	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1-Dichloroethane	ND	0.048	0.0072	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dichloroethane	ND	0.048	0.0061	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1-Dichloroethylene	ND	0.048	0.0086	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
cis-1,2-Dichloroethylene	ND	0.048	0.0097	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
trans-1,2-Dichloroethylene	ND	0.048	0.0075	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dichloropropane	ND	0.048	0.0081	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
cis-1,3-Dichloropropene	ND	0.024	0.0061	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
trans-1,3-Dichloropropene	ND	0.024	0.0069	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Diisopropyl Ether (DIPE)	ND	0.024	0.0080	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Ethanol	ND	9.6	0.97	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Ethylbenzene	ND	0.048	0.0065	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
2-Hexanone (MBK)	ND	0.48	0.065	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Isopropylbenzene (Cumene)	ND	0.048	0.0074	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.048	0.0075	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Methyl Acetate	0.12	0.48	0.023	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 17:52	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.048	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Methyl Cyclohexane	ND	0.048	0.0064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Methylene Chloride	ND	0.24	0.0091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.48	0.065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Naphthalene	0.016	0.096	0.012	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
n-Propylbenzene	ND	0.048	0.0053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Styrene	ND	0.048	0.0062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.024	0.0049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Tetrachloroethylene	ND	0.048	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Toluene	0.016	0.048	0.0055	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,3-Trichlorobenzene	ND	0.24	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,4-Trichlorobenzene	ND	0.048	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,1-Trichloroethane	ND	0.048	0.0067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,2-Trichloroethane	ND	0.048	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Trichloroethylene	ND	0.048	0.0079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Trichlorofluoromethane (Freon 11)	ND	0.096	0.0068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,3-Trichloropropane	ND	0.096	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.048	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,4-Trimethylbenzene	ND	0.048	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,3,5-Trimethylbenzene	ND	0.048	0.0081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Vinyl Chloride	ND	0.096	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
m+p Xylene	ND	0.096	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
o-Xylene	ND	0.048	0.0074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Xylenes (total)	ND	0.048	0.048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.5	70-130		11/6/24 17:52
Toluene-d8	97.4	70-130		11/6/24 17:52
4-Bromofluorobenzene	106	70-130		11/6/24 17:52

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.051	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1	V-05	UJ	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Anthracene	0.081	0.19	0.033	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(a)anthracene	0.096	0.19	0.031	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(a)pyrene	0.12	0.19	0.034	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(b)fluoranthene	0.16	0.19	0.031	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(g,h,i)perylene	0.071	0.19	0.054	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(k)fluoranthene	0.063	0.19	0.034	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Chloroaniline	ND	0.74	0.067	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Chloro-3-methylphenol	ND	0.74	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Chlorophenylphenylether	ND	0.38	0.031	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Chrysene	0.11	0.19	0.034	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Dibenz(a,h)anthracene	ND	0.19	0.052	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
3,3-Dichlorobenzidine	ND	0.19	0.082	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dimethylphenol	ND	0.38	0.088	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dinitrotoluene	ND	0.38	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Fluoranthene	0.21	0.19	0.031	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 12:36	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Indeno(1,2,3-cd)pyrene	0.073	0.19	0.062	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Phenanthrene	0.065	0.19	0.034	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Pyrene	0.35	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	69.1	30-130		11/12/24 12:36
Phenol-d6	79.9	30-130		11/12/24 12:36
Nitrobenzene-d5	79.5	30-130		11/12/24 12:36
2-Fluorobiphenyl	76.0	30-130		11/12/24 12:36
2,4,6-Tribromophenol	97.9	30-130		11/12/24 12:36
p-Terphenyl-d14	86.2	30-130		11/12/24 12:36

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/18/24 11:55	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	41.7	15-110		11/18/24 11:55	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	83.3	8-130		12/4/24 1:53
13C5-PFPeA	109	35-130		12/4/24 1:53
13C5-PFHxA	112	40-130		12/4/24 1:53
13C4-PFHpA	111	40-130		12/4/24 1:53
13C8-PFOA	109	40-130		12/4/24 1:53
13C9-PFNA	110	40-130		12/4/24 1:53
13C6-PFDA	110	40-130		12/4/24 1:53
13C7-PFUnA	114	40-130		12/4/24 1:53
13C2-PFDoA	116	40-130		12/4/24 1:53
13C2-PFTeDA	115	20-130		12/4/24 1:53
13C3-PFBS	111	40-135		12/4/24 1:53
13C3-PFHxS	107	40-130		12/4/24 1:53
13C8-PFOS	107	40-130		12/4/24 1:53
13C2-4:2FTS	113	40-165		12/4/24 1:53
13C2-6:2FTS	97.4	40-215		12/4/24 1:53
13C2-8:2FTS	119	40-275		12/4/24 1:53
13C8-PFOSA	98.2	40-130		12/4/24 1:53
D3-NMeFOSA	90.5	10-130		12/4/24 1:53
D5-NEtFOSA	94.4	10-130		12/4/24 1:53
D3-NMeFOSAA	102	40-135		12/4/24 1:53
D5-NEtFOSAA	107	40-150		12/4/24 1:53
D7-NMeFOSE	113	20-130		12/4/24 1:53
D9-NEtFOSE	102	15-130		12/4/24 1:53
13C3-HFPO-DA	113	40-130		12/4/24 1:53

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.027	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
gamma-Chlordane [1]	ND	0.027	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Aldrin [1]	ND	0.027	0.0027	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
alpha-BHC [1]	ND	0.027	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
beta-BHC [1]	ND	0.027	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
delta-BHC [1]	ND	0.027	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
gamma-BHC (Lindane) [1]	ND	0.011	0.0038	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
4,4'-DDD [1]	0.0058	0.022	0.0046	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:26	TG
4,4'-DDE [2]	0.0096	0.022	0.0035	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:26	TG
4,4'-DDT [1]	ND	0.022	0.0028	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Dieldrin [1]	ND	0.022	0.0026	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endosulfan I [1]	ND	0.027	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endosulfan II [1]	ND	0.044	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endosulfan sulfate [1]	ND	0.044	0.010	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endrin [1]	ND	0.044	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endrin aldehyde [1]	ND	0.044	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/23/24 23:58	TG
Endrin ketone [1]	ND	0.044	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Heptachlor [1]	ND	0.027	0.0030	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Heptachlor epoxide [1]	ND	0.027	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Methoxychlor [1]	ND	0.27	0.032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Toxaphene [1]	ND	0.54	0.23	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.4	30-150		11/26/24 5:26
Decachlorobiphenyl [1]	85.7	30-150		11/23/24 23:58
Decachlorobiphenyl [2]	82.3	30-150		11/23/24 23:58
Decachlorobiphenyl [2]	77.4	30-150		11/26/24 5:26
Tetrachloro-m-xylene [1]	71.0	30-150		11/23/24 23:58
Tetrachloro-m-xylene [1]	70.9	30-150		11/26/24 5:26
Tetrachloro-m-xylene [2]	79.3	30-150		11/23/24 23:58
Tetrachloro-m-xylene [2]	60.7	30-150		11/26/24 5:26

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1221 [1]	ND	0.090	0.042	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1232 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1242 [1]	ND	0.090	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1248 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1254 [1]	ND	0.090	0.027	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1260 [1]	ND	0.090	0.019	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1262 [1]	ND	0.090	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1268 [1]	ND	0.090	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		11/17/24 19:11
Decachlorobiphenyl [2]	75.5	30-150		11/17/24 19:11
Tetrachloro-m-xylene [1]	72.6	30-150		11/17/24 19:11
Tetrachloro-m-xylene [2]	74.4	30-150		11/17/24 19:11

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5800	19	5.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Antimony	ND	1.9	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Arsenic	5.5	3.7	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Barium	21	1.9	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Beryllium	0.30	0.19	0.057	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Cadmium	ND	0.37	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Calcium	920	19	9.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Chromium	9.6	0.75	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Cobalt	3.2	1.9	0.32	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Copper	12	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Iron	8000	19	8.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Lead	26	0.56	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Magnesium	1700	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Manganese	70	0.37	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Mercury	0.086	0.029	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:21	MJH
Nickel	5.9	0.75	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Potassium	670	190	46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 22:00	HNN
Selenium	ND	3.7	0.93	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Sodium	1800	190	56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Thallium	ND	1.9	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Vanadium	12	0.75	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Zinc	28	0.75	0.66	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.56	0.42	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.8	0.11	mg/Kg dry	1	V-05	UJ	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Amyl Alcohol (TAA)	ND	1.1	0.072	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.11	0.0091	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.028	0.0085	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Benzene	0.16	0.056	0.0081	mg/Kg dry	1	V-06	UJ	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromochloromethane	ND	0.056	0.018	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromodichloromethane	ND	0.056	0.010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromoform	ND	0.056	0.017	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromomethane	ND	0.11	0.083	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
2-Butanone (MEK)	0.11	1.1	0.079	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Butyl Alcohol (TBA)	ND	1.1	0.19	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
n-Butylbenzene	ND	0.056	0.0087	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
sec-Butylbenzene	ND	0.056	0.0092	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Butylbenzene	0.016	0.056	0.0093	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.028	0.0089	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Carbon Disulfide	ND	0.28	0.086	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Carbon Tetrachloride	ND	0.056	0.011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chlorobenzene	ND	0.056	0.010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chlorodibromomethane	ND	0.028	0.0072	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chloroethane	ND	0.11	0.026	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chloroform	ND	0.11	0.011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chloromethane	ND	0.11	0.028	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Cyclohexane	ND	0.11	0.099	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.28	0.035	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dibromoethane (EDB)	ND	0.028	0.0070	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dichlorobenzene	ND	0.056	0.0098	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,3-Dichlorobenzene	ND	0.056	0.0087	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,4-Dichlorobenzene	ND	0.056	0.0094	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.11	0.011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1-Dichloroethane	ND	0.056	0.0084	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dichloroethane	ND	0.056	0.0071	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1-Dichloroethylene	ND	0.056	0.010	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
cis-1,2-Dichloroethylene	ND	0.056	0.011	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
trans-1,2-Dichloroethylene	ND	0.056	0.0088	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dichloropropane	ND	0.056	0.0095	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
cis-1,3-Dichloropropene	ND	0.028	0.0072	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
trans-1,3-Dichloropropene	ND	0.028	0.0081	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Diisopropyl Ether (DIPE)	ND	0.028	0.0094	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Ethanol	ND	11	1.1	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Ethylbenzene	0.021	0.056	0.0077	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
2-Hexanone (MBK)	ND	0.56	0.076	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Isopropylbenzene (Cumene)	0.0095	0.056	0.0087	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.056	0.0088	mg/Kg dry	1			SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Methyl Acetate	0.22	0.56	0.027	mg/Kg dry	1	J		SW-846 8260D	11/5/24	11/6/24 18:17	EEH

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.056	0.0094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Methyl Cyclohexane	ND	0.056	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Methylene Chloride	ND	0.28	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.56	0.077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Naphthalene	ND	0.11	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
n-Propylbenzene	0.0079	0.056	0.0062	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Styrene	ND	0.056	0.0072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.028	0.0057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Tetrachloroethylene	ND	0.056	0.0094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Toluene	0.076	0.056	0.0064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,3-Trichlorobenzene	ND	0.28	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,4-Trichlorobenzene	ND	0.056	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,1-Trichloroethane	ND	0.056	0.0079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,2-Trichloroethane	ND	0.056	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Trichloroethylene	ND	0.056	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Trichlorofluoromethane (Freon 11)	ND	0.11	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,3-Trichloropropane	ND	0.11	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.056	0.0088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,4-Trimethylbenzene	ND	0.056	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,3,5-Trimethylbenzene	ND	0.056	0.0095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Vinyl Chloride	ND	0.11	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
m+p Xylene	0.027	0.11	0.014	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
o-Xylene	ND	0.056	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Xylenes (total)	ND	0.056	0.056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.6	70-130		11/6/24 18:17
Toluene-d8	100	70-130		11/6/24 18:17
4-Bromofluorobenzene	101	70-130		11/6/24 18:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.83	0.057	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Atrazine	ND	0.83	0.054	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzaldehyde	ND	0.42	0.067	mg/Kg dry	1	V-05	UJ	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Biphenyl	ND	0.83	0.053	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Caprolactam	ND	0.42	0.073	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Acenaphthene	ND	0.21	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Acenaphthylene	ND	0.21	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Acetophenone	ND	0.42	0.044	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Aniline	ND	0.42	0.073	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Anthracene	0.36	0.21	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(a)anthracene	0.36	0.21	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(a)pyrene	0.36	0.21	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(b)fluoranthene	0.46	0.21	0.034	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(g,h,i)perylene	0.18	0.21	0.060	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(k)fluoranthene	0.18	0.21	0.038	mg/Kg dry	1	J		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Bis(2-chloroethoxy)methane	ND	0.42	0.045	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Bis(2-chloroethyl)ether	ND	0.42	0.060	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.42	0.27	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.050	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Bromophenylphenylether	ND	0.42	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Butylbenzylphthalate	ND	0.42	0.047	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Carbazole	ND	0.21	0.043	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Chloroaniline	ND	0.82	0.075	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Chloro-3-methylphenol	ND	0.82	0.044	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Chloronaphthalene	ND	0.42	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Chlorophenol	ND	0.42	0.042	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Chlorophenylphenylether	ND	0.42	0.035	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Chrysene	0.42	0.21	0.037	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Dibenz(a,h)anthracene	ND	0.21	0.058	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Dibenzofuran	ND	0.42	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Di-n-butylphthalate	ND	0.42	0.16	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
3,3-Dichlorobenzidine	ND	0.21	0.091	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dichlorophenol	ND	0.42	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Diethylphthalate	ND	0.42	0.041	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dimethylphenol	ND	0.42	0.097	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Dimethylphthalate	ND	0.42	0.040	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4,6-Dinitro-2-methylphenol	ND	0.42	0.33	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dinitrophenol	ND	0.82	0.32	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dinitrotoluene	ND	0.42	0.043	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,6-Dinitrotoluene	ND	0.42	0.044	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Di-n-octylphthalate	ND	0.42	0.060	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Fluoranthene	0.76	0.21	0.035	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Fluorene	ND	0.21	0.038	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Hexachlorobenzene	ND	0.42	0.041	mg/Kg dry	1			SW-846 8270E	11/10/24	11/12/24 13:01	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Hexachloroethane	ND	0.42	0.039	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Indeno(1,2,3-cd)pyrene	0.19	0.21	0.068	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Isophorone	ND	0.42	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
1-Methylnaphthalene	ND	0.21	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Methylnaphthalene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Methylphenol	ND	0.42	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
3/4-Methylphenol	ND	0.42	0.055	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Naphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Nitroaniline	ND	0.42	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
3-Nitroaniline	ND	0.42	0.088	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Nitroaniline	ND	0.42	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Nitrobenzene	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Nitrophenol	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Nitrophenol	ND	0.82	0.11	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
N-Nitrosodi-n-propylamine	ND	0.42	0.059	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Pentachlorophenol	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Phenanthrene	0.32	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Phenol	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Pyrene	1.1	0.21	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Pyridine	ND	0.42	0.049	mg/Kg dry	1	L-04, V-34 UJ	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4,5-Trichlorophenol	ND	0.42	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4,6-Trichlorophenol	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	66.0	30-130		11/12/24 13:01
Phenol-d6	76.9	30-130		11/12/24 13:01
Nitrobenzene-d5	79.1	30-130		11/12/24 13:01
2-Fluorobiphenyl	73.7	30-130		11/12/24 13:01
2,4,6-Tribromophenol	90.3	30-130		11/12/24 13:01
p-Terphenyl-d14	80.1	30-130		11/12/24 13:01

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.063	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/18/24 12:14	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	38.0	15-110					11/18/24 12:14	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorobutanesulfonic acid (PFBS)	0.46	0.20	0.062	µg/kg dry	1	PF-23	Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.059	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.056	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	91.5	8-130		12/4/24 2:02
13C5-PFPeA	96.4	35-130		12/4/24 2:02
13C5-PFHxA	96.7	40-130		12/4/24 2:02
13C4-PFHpA	98.4	40-130		12/4/24 2:02
13C8-PFOA	101	40-130		12/4/24 2:02
13C9-PFNA	95.5	40-130		12/4/24 2:02
13C6-PFDA	98.5	40-130		12/4/24 2:02
13C7-PFUnA	98.9	40-130		12/4/24 2:02
13C2-PFDoA	101	40-130		12/4/24 2:02
13C2-PFTeDA	108	20-130		12/4/24 2:02
13C3-PFBS	96.6	40-135		12/4/24 2:02
13C3-PFHxS	96.2	40-130		12/4/24 2:02
13C8-PFOS	103	40-130		12/4/24 2:02
13C2-4:2FTS	88.4	40-165		12/4/24 2:02
13C2-6:2FTS	83.6	40-215		12/4/24 2:02
13C2-8:2FTS	105	40-275		12/4/24 2:02
13C8-PFOSA	84.1	40-130		12/4/24 2:02
D3-NMeFOSA	84.2	10-130		12/4/24 2:02
D5-NEtFOSA	81.3	10-130		12/4/24 2:02
D3-NMeFOSAA	88.4	40-135		12/4/24 2:02
D5-NEtFOSAA	95.6	40-150		12/4/24 2:02
D7-NMeFOSE	92.2	20-130		12/4/24 2:02
D9-NEtFOSE	89.8	15-130		12/4/24 2:02
13C3-HFPO-DA	102	40-130		12/4/24 2:02

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.031	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
gamma-Chlordane [1]	ND	0.031	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Aldrin [1]	ND	0.031	0.0030	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
alpha-BHC [1]	ND	0.031	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
beta-BHC [1]	ND	0.031	0.016	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
delta-BHC [1]	ND	0.031	0.016	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
gamma-BHC (Lindane) [1]	ND	0.012	0.0043	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
4,4'-DDD [1]	0.012	0.025	0.0052	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:54	TG
4,4'-DDE [1]	0.0097	0.025	0.0027	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:54	TG
4,4'-DDT [2]	ND	0.025	0.0035	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Dieldrin [1]	ND	0.025	0.0029	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endosulfan I [1]	ND	0.031	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endosulfan II [1]	ND	0.049	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endosulfan sulfate [1]	ND	0.049	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endrin [1]	ND	0.049	0.016	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endrin aldehyde [1]	ND	0.049	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/24/24 0:10	TG
Endrin ketone [1]	ND	0.049	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Heptachlor [1]	ND	0.031	0.0034	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Heptachlor epoxide [1]	ND	0.031	0.0036	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Methoxychlor [1]	ND	0.31	0.037	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Toxaphene [1]	ND	0.62	0.26	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.1	30-150		11/24/24 0:10
Decachlorobiphenyl [1]	77.0	30-150		11/26/24 5:54
Decachlorobiphenyl [2]	88.9	30-150		11/24/24 0:10
Decachlorobiphenyl [2]	77.5	30-150		11/26/24 5:54
Tetrachloro-m-xylene [1]	66.5	30-150		11/26/24 5:54
Tetrachloro-m-xylene [1]	66.9	30-150		11/24/24 0:10
Tetrachloro-m-xylene [2]	55.5	30-150		11/26/24 5:54
Tetrachloro-m-xylene [2]	72.3	30-150		11/24/24 0:10

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1221 [1]	ND	0.10	0.046	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1232 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1242 [1]	ND	0.10	0.028	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1248 [1]	ND	0.10	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1254 [1]	ND	0.10	0.030	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1260 [1]	ND	0.10	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1262 [1]	ND	0.10	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1268 [1]	ND	0.10	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.7	30-150		11/17/24 19:28
Decachlorobiphenyl [2]	58.1	30-150		11/17/24 19:28
Tetrachloro-m-xylene [1]	66.5	30-150		11/17/24 19:28
Tetrachloro-m-xylene [2]	64.9	30-150		11/17/24 19:28

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5300	20	6.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Arsenic	5.6	4.0	0.56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Barium	23	2.0	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Beryllium	0.30	0.20	0.060	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Cadmium	0.40	0.40	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Calcium	1300	20	10	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Chromium	11	0.79	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Cobalt	2.7	2.0	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Copper	21	1.6	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Iron	9300	20	9.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Lead	84	0.59	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Magnesium	1900	20	4.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Manganese	100	0.40	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Mercury	0.13	0.030	0.014	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:22	MJH
Nickel	7.0	0.79	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Potassium	710	200	49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 22:08	HNN
Selenium	ND	4.0	0.98	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Silver	ND	0.40	0.24	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Sodium	2200	200	59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Thallium	ND	2.0	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Vanadium	13	0.79	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Zinc	67	0.79	0.70	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.55	0.42	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: WC-102924 | Sampled: 10/29/2024 15:05

Sample ID: 24K0186-17

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.8			% Wt	1	H-06	SM 2540G	11/15/24	11/15/24 15:32	ANR

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.6	50	2.0	µg/L	1	V-05, J UJ	SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
cis-1,2-Dichloroethylene	1.5	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Vinyl Chloride	1.1	2.0	0.19	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 16:35	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.3	70-130		11/6/24 16:35
Toluene-d8	87.0	70-130		11/6/24 16:35
4-Bromofluorobenzene	101	70-130		11/6/24 16:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzaldehyde	ND	9.5	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04 UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Acetophenone	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Aniline	ND	19	8.5	µg/L	1	V-05 UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.5	0.71	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Bromophenylphenylether	ND	9.5	0.67	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Butylbenzylphthalate	ND	9.5	0.37	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Carbazole	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Chlorophenylphenylether	ND	9.5	0.82	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04 UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Di-n-butylphthalate	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
3,3-Dichlorobenzidine	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dichlorophenol	ND	9.5	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Dimethylphthalate	ND	9.5	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04, V-05 UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04 UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Fluorene	ND	4.7	0.72	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Hexachlorobenzene	ND	9.5	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Hexachloroethane	ND	9.5	1.2	µg/L	1	L-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Isophorone	ND	9.5	0.51	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
1-Methylnaphthalene	ND	4.7	0.93	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Methylphenol	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
3/4-Methylphenol	ND	9.5	0.45	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Naphthalene	ND	4.7	0.85	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Nitroaniline	ND	9.5	0.41	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Nitrophenol	ND	9.5	0.51	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.45	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Pentachlorophenol	ND	9.5	0.45	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Phenol	ND	9.5	0.56	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Pyrene	ND	4.7	0.44	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	UJ	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1			SW-846 8270E	11/5/24	11/7/24 15:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	44.0	15-110		11/7/24 15:43
Phenol-d6	37.4	15-110		11/7/24 15:43
Nitrobenzene-d5	74.0	30-130		11/7/24 15:43
2-Fluorobiphenyl	74.0	30-130		11/7/24 15:43
2,4,6-Tribromophenol	50.6	15-110		11/7/24 15:43
p-Terphenyl-d14	98.5	30-130		11/7/24 15:43

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/5/24	11/12/24 6:50	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.0	15-110		11/12/24 6:50	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Sample Flags: Z-01a

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.2	6.5	0.81	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoropentanoic acid (PFPeA)	3.8	3.2	0.45	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorohexanoic acid (PFHxA)	3.2	1.6	0.28	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoroheptanoic acid (PFHpA)	2.2	1.6	0.28	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorooctanoic acid (PFOA)	4.1	1.6	0.42	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorononanoic acid (PFNA)	0.88	1.6	0.66	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorobutanesulfonic acid (PFBS)	0.54	1.6	0.35	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.65	1.6	0.63	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorooctanesulfonic acid (PFOS)	1.4	1.6	0.40	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1	PF-18	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1	PF-18	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1	PF-18	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.94	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.1	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	9.1	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.57	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Sample Flags: Z-01a

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.43	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	72.8		5-130	Z-01	12/4/24 2:39
13C5-PFPeA	48.3		40-130		12/4/24 2:39
13C5-PFHxA	80.5		40-130		12/4/24 2:39
13C4-PFHpA	89.8		40-130		12/4/24 2:39
13C8-PFOA	72.8		40-130		12/4/24 2:39
13C9-PFNA	76.8		40-130		12/4/24 2:39
13C6-PFDA	68.3		40-130		12/4/24 2:39
13C7-PFUnA	61.5		30-130		12/4/24 2:39
13C2-PFDoA	56.5		10-130		12/4/24 2:39
13C2-PFTeDA	39.7		10-130		12/4/24 2:39
13C3-PFBS	74.7		40-135		12/4/24 2:39
13C3-PFHxS	83.2		40-130		12/4/24 2:39
13C8-PFOS	74.9		40-130		12/4/24 2:39
13C2-4:2FTS	**32.0**	*	40-200	PF-18	12/4/24 2:39
13C2-6:2FTS	41.7		40-200		12/4/24 2:39
13C2-8:2FTS	**39.1**	*	40-300	PF-18	12/4/24 2:39
13C8-PFOSA	60.6		40-130		12/4/24 2:39
D3-NMeFOSA	49.0		10-130		12/4/24 2:39
D5-NEtFOSA	40.2		10-130		12/4/24 2:39
D3-NMeFOSAA	**29.0**	*	40-170	PF-18	12/4/24 2:39
D5-NEtFOSAA	28.1		25-135		12/4/24 2:39
D7-NMeFOSE	38.7		10-130		12/4/24 2:39
D9-NEtFOSE	33.6		10-130		12/4/24 2:39
13C3-HFPO-DA	95.0		40-130		12/4/24 2:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1.7	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Arsenic	0.012	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Barium	0.023	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Calcium	250	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Chromium	0.0067	0.010	0.0053	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Cobalt	0.0030	0.010	0.0027	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Copper	0.039	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Iron	3.4	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Lead	0.020	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Magnesium	670	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Manganese	0.20	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:20	AAJ
Nickel	0.011	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Potassium	260	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Sodium	6600	100	19	mg/L	50		SW-846 6010D	11/6/24	11/14/24 6:13	NC
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Zinc	0.029	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05	UJ	SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Benzene	ND	1.0	0.14	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromoform	ND	1.0	0.30	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromomethane	ND	2.0	1.5	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chloroethane	ND	2.0	0.46	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chloroform	ND	2.0	0.19	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chloromethane	ND	2.0	0.50	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Ethanol	ND	50	20	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1			SW-846 8260D	11/5/24	11/6/24 17:01	EEH

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Tetrachloroethylene	0.25	1.0	0.17	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		11/6/24 17:01
Toluene-d8	99.0	70-130		11/6/24 17:01
4-Bromofluorobenzene	102	70-130		11/6/24 17:01

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.2	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Caprolactam	ND	9.3	0.67	µg/L	1	L-04 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Acetophenone	ND	9.3	0.47	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Aniline	ND	19	8.3	µg/L	1	V-05 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(g,h,i)perylene	ND	4.6	0.49	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(k)fluoranthene	ND	4.6	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.3	0.70	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Carbazole	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Chrysene	ND	4.6	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1	V-04 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Dibenzofuran	ND	4.6	0.80	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Di-n-butylphthalate	ND	9.3	0.47	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
3,3-Dichlorobenzidine	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Dimethylphthalate	ND	9.3	0.41	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dinitrophenol	ND	9.3	1.2	µg/L	1	V-04, V-05 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-04 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1	V-04 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
1-Methylnaphthalene	ND	4.6	0.91	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Methylnaphthalene	ND	4.6	0.87	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Methylphenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
3/4-Methylphenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Nitroaniline	ND	9.3	0.41	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Nitrophenol	ND	9.3	1.2	µg/L	1	V-05 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
N-Nitrosodiphenylamine/Diphenylamine	2.0	9.3	0.45	µg/L	1	J	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Pentachlorophenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Phenanthrene	ND	4.6	0.67	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Pyrene	ND	4.6	0.43	µg/L	1	V-06 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Pyridine	ND	19	4.8	µg/L	1	V-05, V-34 UJ	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	26.2	15-110		11/14/24 9:55
Phenol-d6	26.2	15-110		11/14/24 9:55
Nitrobenzene-d5	87.2	30-130		11/14/24 9:55
2-Fluorobiphenyl	84.4	30-130		11/14/24 9:55
2,4,6-Tribromophenol	32.1	15-110		11/14/24 9:55
p-Terphenyl-d14	108	30-130		11/14/24 9:55

SPL 2/24/2025

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.14	0.20	0.033	µg/L	1	J	SW-846 8270E	11/5/24	11/12/24 7:10	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.1	15-110		11/12/24 7:10	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	6.5	0.81	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoropentanoic acid (PFPeA)	14	3.2	0.45	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorohexanoic acid (PFHxA)	12	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoroheptanoic acid (PFHpA)	9.3	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorooctanoic acid (PFOA)	19	1.6	0.42	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorononanoic acid (PFNA)	3.5	1.6	0.66	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorodecanoic acid (PFDA)	1.1	1.6	0.39	ng/L	1	J J	Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorobutanesulfonic acid (PFBS)	2.7	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.6	0.63	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorooctanesulfonic acid (PFOS)	7.5	1.6	0.40	ng/L	1	J	Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	9.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.58	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS

SPL 2/24/2025

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.43	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	66.7	5-130		11/26/24 16:05
13C5-PFPeA	63.5	40-130		11/26/24 16:05
13C5-PFHxA	63.0	40-130		11/26/24 16:05
13C4-PFHpA	56.5	40-130		11/26/24 16:05
13C8-PFOA	68.9	40-130		11/26/24 16:05
13C9-PFNA	62.8	40-130		11/26/24 16:05
13C6-PFDA	55.4	40-130		11/26/24 16:05
13C7-PFUnA	59.9	30-130		11/26/24 16:05
13C2-PFDoA	56.2	10-130		11/26/24 16:05
13C2-PFTeDA	46.0	10-130		11/26/24 16:05
13C3-PFBS	63.5	40-135		11/26/24 16:05
13C3-PFHxS	67.9	40-130		11/26/24 16:05
13C8-PFOS	57.8	40-130		11/26/24 16:05
13C2-4:2FTS	73.7	40-200		11/26/24 16:05
13C2-6:2FTS	46.8	40-200		11/26/24 16:05
13C2-8:2FTS	49.5	40-300		11/26/24 16:05
13C8-PFOSA	49.2	40-130		11/26/24 16:05
D3-NMeFOSA	43.7	10-130		11/26/24 16:05
D5-NEtFOSA	40.1	10-130		11/26/24 16:05
D3-NMeFOSAA	44.5	40-170		11/26/24 16:05
D5-NEtFOSAA	43.4	25-135		11/26/24 16:05
D7-NMeFOSE	42.2	10-130		11/26/24 16:05
D9-NEtFOSE	38.2	10-130		11/26/24 16:05
13C3-HFPO-DA	63.9	40-130		11/26/24 16:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.076	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Barium	0.034	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Calcium	38	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Iron	0.24	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Lead	0.0057	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Magnesium	58	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Manganese	0.025	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:22	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Potassium	19	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Sodium	470	2.0	0.38	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Vanadium	0.0067	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/7/24	11/7/24 14:06	DET

VALIDATA
Chemical Services, Inc.
2159 Wynnton Pointe, Duluth, GA 30097
(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY:	Arcadis US, Inc.
PROJECT NAME:	NYSDEC-Former Commander Oil Work Assignment
CONTRACTED LAB:	PACE – New England
QA/QC LEVEL:	DUSR
ANALYTICAL METHOD(S):	SW-846 and EPA Methods
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 2020, Professional Judgement
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organic Compounds (VOC) Method 8260D, Semivolatile Organic Compounds (SVOC) Method 8270E, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM, Polyfluoroalkyl Substances (PFAS) Method 1633,ICP Metals (6010D), Mercury(7470A), Cyanide (9014), Hexavalent Chromium (7196A)
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	24K1058
SAMPLING DATE(S):	November 11,12, 2024

SAMPLES:

Client Sample ID	Laboratory ID	VOC	SVOC	1,4-DIOXANE
MW-1S	24K1058-01	X	X	X
MW-1M	24K1058-02	X	X	X
MW-1D	24K1058-03	X		
MW-2S	24K1058-04	X	X	X
MW-2M	24K1058-05	X		
MW-2D	24K1058-06	X		
MW-3S	24K1058-07	X	X	X
MW-3M	24K1058-08	X		
MW-3D	24K1058-09	X		
MW-4S	24K1058-10	X	X	X
MW-4M	24K1058-11	X		
MW-4D	24K1058-12	X		
DUP-111224	24K1058-13	X		
TRIP BLANK111124	24K1058-14	X		
MW-1SMS	24K1058-01MS	X		

Client Sample ID	Laboratory ID	VOC	SVOC	1,4-DIOXANE
MW-1SMSD	24K1058-01MSD	X		

Client Sample ID	Laboratory ID	PFAS	PESTICIDES	PCBS
MW-1S	24K1058-01	X	X	X
MW-1D	24K1058-03	X	X	X
MW-2S	24K1058-04	X		
MW-3S	24K1058-07	X	X	X
DUP-111224	24K1058-13		X	X
MW-1SMS	24K1058-01MS		X	X
MW-1SMSD	24K1058-01MSD		X	X

Client Sample ID	Laboratory ID	HERBICIDES	METALS	MERCURY
MW-1S	24K1058-01	X	X	X
MW-1D	24K1058-03	X	X	X
MW-3S	24K1058-07	X	X	X
DUP-111224	24K1058-13	X		
MW-1SMS	24K1058-01MS	X	X	X
MW-1SMSD	24K1058-01MSD	X	X	X

Client Sample ID	Laboratory ID	DISSOLVED METALS	DISSOLVED MERCURY	CYANIDE
MW-1S	24K1058-01			X
MW-1D	24K1058-03			X
MW-3S	24K1058-07	X	X	X
DUP-111224	24K1058-13			X
MW-1SMS	24K1058-01MS			X
MW-1SMSD	24K1058-01MSD			X

Client Sample ID	Laboratory ID	HEXAVALENT CHROMIUM
MW-1S	24K1058-01	X
DUP-111224	24K1058-13	X
MW-1SMS	24K1058-01MS	X
MW-1SMSD	24K1058-01MSD	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY

PACE – New England – 24K1058

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed per EPA Method 8260D.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

The CCV analyzed 11/15/2024 at 08:23 had the following outliers

Analyte	% Difference	QC Limit
Acetone	38.80%	20%
Benzene	22.00%	20%
1,1-Dichloroethylene	36.70%	20%
Methylene Chloride	22.40%	20%
Toluene	20.10%	20%
1,2,3-Trichlorobenzene	21.10%	20%
Trichlorofluoromethane	20.20%	20%

The CCV analyzed 11/18/2024 at 09:16 had the following outliers

Analyte	% Difference	QC Limit
Bromoform	27.50%	20%
Carbon Tetrachloride	26.10%	20%
Naphthalene	22.30%	20%
Tetrachloroethylene	27.80%	20%
1,2,3-Trichlorobenzene	46.10%	20%
1,2,4-Trichlorobenzene	25.80%	20%
Trichlorofluoromethane	20.20%	20%

Results for these analytes were flagged as estimated for the affected samples; Positive results (J) and negative results (UJ).

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There was one trip blank analyzed as part of this SDG. There were no target analytes detected in the trip blank. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples (LCS):

There were two Laboratory Control Sample analyzed as part of this SDG. The following outliers were identified.

Batch B392238

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Acetone	63.8%	63.4%	70-160%

Batch B392239

Analyte	LCS% Recovery	LCSD% Recovery	QC Limits
Carbon Tetrachloride		137%	70-130%
1,2,3-Trichlorobenzene		146%	70-130%
Trichlorofluoromethane		132%	70-130%

These analytes were flagged as estimated for the affected samples; positive results (J+) and negative results (UJ)

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Sample MW-1S was analyzed as the batch MS/MSD for this SDG. The following outliers were identified.

Analyte	MS% Recovery	MSD% Recovery	QC Limits
Naphthalene	135%	138%	70-130%
1,2,3-Trichlorobenzene	146%	151%	70-130%

These analytes were flagged as estimated for the affected samples; positive results (J+) and negative results (UJ)

X.) Field Duplicates:

Samples MW-1D and DUP-11122024 were analyzed as field duplicates. All calculable results met precision criteria. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

SEMI-VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

The following analytes had a % RSD above the QC Limits.

Analyte	%RSD	QC Limit
Dibenz(a,h)anthracene	21.3%	15%
2,4-Dinitrophenol	37.1%	15%
Di-n-Octylphthalate	21.9%	15%
Indeno(1,2,3-cd)pyrene	20.4%	15%

Results for these analytes were flagged as estimated; positive results (J) and negative results (UJ)

Initial Calibration Verification:

The ICV analyzed 10/30/24 at 12:21 had the following outliers

Analyte	% Difference	QC Limit
Pyridine	37.0%	30%

Results for this analyte were flagged as estimated; positive results (J) and negative results (UJ)

Continuing Calibration:

The CCV analyzed 11/19/2024 at 08:07 had the following outliers

Analyte	% Difference	QC Limit
Aniline	27.8%	20%
4-Nitroaniline	22.9%	20%

The CCV analyzed 11/22/2024 at 11:24 had the following outlier

Analyte	% Difference	QC Limit
Aniline	22.8%	20%

The CCV analyzed 11/22/2024 at 11:45 had the following outliers

Analyte	% Difference	QC Limit
2,3,4,6-Tetrachlorophenol	21.60%	20%
Caprolactam	24.70%	20%

Results for these analytes were flagged as estimated for the affected samples; positive results (J) and negative results (UJ)

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was two Laboratory Control Sample/Duplicates analyzed as part of this SDG. The following outliers were identified for the water LCS/LCSD.

Analyte	LCS	LCSD	QC Limits
Caprolactam	31.4%	35.3%	40-140%
3,3'-Dichlorobenzidine	39.6%		40-140%

Results for these analyes were flagged as estimated for the affected samples; positive results (J-) and negative results (UJ).

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD)

There was no batch MS/MSD analyzed with this SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

Appendix A contains the qualified sample summary reports.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.
Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

PFAS

SUMMARY

I.) General:

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) Mass Calibration:

All mass calibration criteria were met. No data qualification was necessary.

V.) LC-MS Tune

Autotunes were performed with acceptable results. All masses were acceptable. All instrument tunes met the project QPP criteria.

VI.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria met all project QPP requirements, No data qualification was necessary.

VII.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VIII.) Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

IX.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

X.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicates analyzed as part of this SDG. All recovery criteria were met.

XI.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed as part of this SDG. No data qualification was necessary.

XII.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

XIII.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG were within criteria with the following exceptions.

Sample ID	Analyte	%Recovery	QC Limits
MW-1S	13C2 4:2 FTS	264%	40-200%
	13C2 6:2 FTS	207%	40-200%
MW-3S	13C2 4:2 FTS	255%	40-200%

Positive results for these analytes were flagged as estimated (J-) for the affected samples.

XIV.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XV.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XVI.) Reporting limits (RLs):

All LOQs (Limit of Quantitation) were acceptable

XVII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XVIII.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

PESTICIDES

SUMMARY

I.) General:

The analyses for Pesticides were performed by GC according to SW 846 Method 8081B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

One LCS was analyzed for this fraction of the SDG. All LCS criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on sample MW-1S. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicates (MW-1D/DUP-111224) was identified in this fraction of the SDG. There were no calculable results for these samples. No action was required.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

PCBs

SUMMARY

I.) General:

The analyses for PCBs were performed by GC according to SW 846 Method 8082A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

One LCS was analyzed for this fraction of the SDG. All LCS criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on sample MW-1S. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicates (MW-1D/DUP-111224) was identified in this fraction of the SDG. There were no calculable results for these samples. No action was required.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

HERBICIDES

SUMMARY

I.) General:

The analyses for herbicides were performed by GC according to SW 846 Method 8151.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The CCV analyzed 11/29/24 at 12:13 had a %D for Dinoseb (19.8%) that was above the QC Limit of 15%. The CCV analyzed 11/29/24 at 16:14 had a %D for Dinoseb (19.5%) that was above the QC Limit of 15%. This analyte was not detected in the affected samples and was flagged as estimated (UJ).

III.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this fraction of the SDG. No action was required.

IV.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

V.) Laboratory Control Samples (LCS):

One LCS was analyzed for this fraction of the SDG. All LCS criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on sample MW-1S. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicates (MW-1D/DUP-111224) was identified in this fraction of the SDG. There were no calculable results for these samples. No action was required.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

TOTAL AND DISSOLVED METALS

SUMMARY

I.) General:

The analyses for Total and Dissolved Metals were performed by Inductively Coupled Plasma (ICP) according to SW-846 Method 6010B

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

Selenium was detected in S114363-ICB at 0.0202 mg/L. Silver was detected in S114718-CCB at 0.0081 mg/L. These results were below the QL so no further action was taken.

IV.) ICP Interference Check Sample Results:

All Interference Percent Recovery criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

Serial Dilution analysis was performed on sample MW-1. All Serial Dilution Analysis criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

MS/MSD analysis was performed on SDG sample MW-1. The recoveries for Sodium were above QC Limits for both the MS and MSD. This analyte was present in the parent sample at more than four times the amount spiked. No action was required.

VIII.) Post Digestion Spike:

The recovery of Calcium (130%) was above the QC Limits of 75-125%. This analyte was within recovery limits for the MS/MSD. No further action was required.

IX.) Field Duplicates:

There were no field duplicate samples identified for this fraction of the SDG. No action was required.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

TOTAL AND DISSOLVED MERCURY

SUMMARY

I.) General:

The analyses for Total and Dissolved Mercury were performed according to SW-846 Method 7470A

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was taken.

II.) Calibration:

All Initial and Continuing Calibration criteria were met. No action was taken.

III.) CRDL Standards:

All CRDL criteria were met. No action was required.

III.) Blanks:

There were no target analytes detected in any blanks. No further action was required.

V.) Serial Dilution Analysis:

There was no serial dilution analysis performed for this SDG. No action was required.

VI.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VII.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

All MS/MSD recoveries were within limits. No action was required.

VIII.) Post Digestion Spike:

There was no post digestion spike analyzed with this SDG. No further action was required.

IX.) Field Duplicates:

There were no field duplicate samples identified for this fraction of the SDG. No action was required.

X.) Sample Result, Calculation/Transcription Verification:

All criteria were met. No action was taken.

CYANIDE

SUMMARY

I.) General:

The analyses for Cyanide were performed per Method 9014.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

All calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There was no detection reported in the associated method blank. No data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Sample MW-1 was used for MS/MSD analysis. Recoveries were within limits No action was needed.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Lab Duplicates:

There were one set of lab duplicates analyzed for this fraction of the SDG. All calculable results met precision criteria. No data qualification was necessary.

Field Duplicates:

One set of field duplicates (MW-1D/DUP-111224) was identified in this fraction of the SDG. There were no calculable results for these samples. No action was required.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

HEXAVALENT CHROMIUM

SUMMARY

I.) General:

The analyses for Hexavalent Chromium were performed per Method 7196A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

All calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There was no detection reported in the associated method blank. No data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Sample MW-1 was used for MS/MSD analysis. The recoveries of the MS (66.1%) and MSD (73.0%) were outside the QC Limits of 85-115%. This analyte was not detected in the parent sample. Results were flagged as estimated (UJ).

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No action was required.

VI.) Lab Duplicates:

There were one set of lab duplicates analyzed for this fraction of the SDG. All calculable results met precision criteria. No data qualification was necessary.

Field Duplicates:

One set of field duplicates (MW-1D/DUP-111224) was identified in this fraction of the SDG. There were no calculable results for these samples. No action was required.

VII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No data qualification was necessary.

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Amyl Alcohol (TAA)	6.8	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Benzene	19	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Butyl Alcohol (TBA)	69	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
n-Butylbenzene	1.5	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
sec-Butylbenzene	2.6	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Butylbenzene	0.79	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
cis-1,2-Dichloroethylene	0.47	1.0	0.20	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Diisopropyl Ether (DIPE)	0.29	0.50	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Isopropylbenzene (Cumene)	3.8	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
p-Isopropyltoluene (p-Cymene)	14	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	16	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Methyl Cyclohexane	1.9	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
n-Propylbenzene	3.2	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Toluene	0.46	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Vinyl Chloride	0.76	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
m+p Xylene	1.5	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
o-Xylene	0.91	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Xylenes (total)	2.4	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		11/18/24 13:31
Toluene-d8	101	70-130		11/18/24 13:31
4-Bromofluorobenzene	103	70-130		11/18/24 13:31

Pace ANALYTICAL SERVICES

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.4	µg/L	1	V-06 UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzaldehyde	ND	9.7	0.70	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Biphenyl	ND	19	0.89	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Caprolactam	ND	9.7	0.69	µg/L	1	V-06, L-04 UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Acenaphthene	2.8	4.8	0.76	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Acenaphthylene	ND	4.8	0.62	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Acetophenone	ND	9.7	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Aniline	ND	19	8.7	µg/L	1	V-05 UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(a)pyrene	ND	4.8	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Bis(2-chloroethoxy)methane	ND	9.7	0.56	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Bis(2-chloroethyl)ether	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.7	0.72	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.7	0.31	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Bromophenylphenylether	ND	9.7	0.69	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Butylbenzylphthalate	ND	9.7	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Carbazole	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Chloroaniline	ND	9.7	5.0	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Chloro-3-methylphenol	ND	9.7	0.61	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Chloronaphthalene	ND	9.7	0.78	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Chlorophenol	ND	9.7	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Chlorophenylphenylether	ND	9.7	0.84	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Dibenz(a,h)anthracene	ND	4.8	0.46	µg/L	1	V-04 UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Dibenzofuran	1.1	4.8	0.83	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Di-n-butylphthalate	ND	9.7	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
3,3-Dichlorobenzidine	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dichlorophenol	ND	9.7	0.45	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Diethylphthalate	ND	9.7	0.54	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dimethylphenol	ND	9.7	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Dimethylphthalate	ND	9.7	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dinitrophenol	ND	9.7	1.3	µg/L	1	V-04 UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dinitrotoluene	ND	9.7	0.34	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,6-Dinitrotoluene	ND	9.7	0.53	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Di-n-octylphthalate	ND	9.7	0.32	µg/L	1	V-04 UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Fluorene	1.8	4.8	0.73	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Hexachlorobenzene	ND	9.7	0.70	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.7	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Hexachlorocyclopentadiene	ND	9.7	2.7	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Hexachloroethane	ND	9.7	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.46	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Isophorone	ND	9.7	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
1-Methylnaphthalene	15	4.8	0.95	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Methylnaphthalene	ND	4.8	0.90	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Methylphenol	ND	9.7	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
3/4-Methylphenol	ND	9.7	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Naphthalene	ND	4.8	0.87	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Nitroaniline	ND	9.7	0.48	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
3-Nitroaniline	ND	9.7	0.50	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Nitroaniline	ND	9.7	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Nitrobenzene	ND	9.7	0.65	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Nitrophenol	ND	9.7	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Nitrophenol	ND	9.7	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.7	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
N-Nitrosodi-n-propylamine	ND	9.7	0.63	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Pentachlorophenol	ND	9.7	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Phenanthrene	ND	4.8	0.69	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Phenol	ND	9.7	0.57	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Pyrene	ND	4.8	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Pyridine	ND	19	5.0	µg/L	1	V-34	UJ	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.7	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4,5-Trichlorophenol	ND	9.7	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4,6-Trichlorophenol	ND	9.7	0.36	µg/L	1			SW-846 8270E	11/14/24	11/22/24 19:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.5	15-110		11/22/24 19:45
Phenol-d6	32.3	15-110		11/22/24 19:45
Nitrobenzene-d5	83.1	30-130		11/22/24 19:45
2-Fluorobiphenyl	72.7	30-130		11/22/24 19:45
2,4,6-Tribromophenol	83.2	15-110		11/22/24 19:45
p-Terphenyl-d14	86.9	30-130		11/22/24 19:45

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.39	0.20	0.033	µg/L	1		SW-846 8270E	11/14/24	11/18/24 16:54	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.8	15-110		11/18/24 16:54	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	82	6.0	0.75	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoropentanoic acid (PFPeA)	160	3.0	0.42	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorohexanoic acid (PFHxA)	51	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoroheptanoic acid (PFHpA)	30	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorooctanoic acid (PFOA)	27	1.5	0.39	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorononanoic acid (PFNA)	8.8	1.5	0.61	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorodecanoic acid (PFDA)	1.9	1.5	0.36	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorobutanesulfonic acid (PFBS)	1.9	1.5	0.32	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorohexanesulfonic acid (PFHxS)	1.4	1.5	0.58	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorooctanesulfonic acid (PFOS)	18	1.5	0.37	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	1.2	ng/L	1	PF-17	Draft Method 1633	12/9/24	12/11/24 16:20	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	18	6.0	2.8	ng/L	1	PF-18 J-	Draft Method 1633	12/9/24	12/11/24 16:20	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	3.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	1.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	0.79	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
9Cl-PF3ONS (F53B Minor)	ND	6.0	0.87	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
11Cl-PF3OUdS (F53B Major)	ND	6.0	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	0.40	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	83.2		5-130		12/11/24 16:20
13C5-PFPeA	80.1		40-130		12/11/24 16:20
13C5-PFHxA	87.6		40-130		12/11/24 16:20
13C4-PFHpA	90.6		40-130		12/11/24 16:20
13C8-PFOA	94.7		40-130		12/11/24 16:20
13C9-PFNA	82.4		40-130		12/11/24 16:20
13C6-PFDA	87.5		40-130		12/11/24 16:20
13C7-PFUnA	85.8		30-130		12/11/24 16:20
13C2-PFDoA	76.2		10-130		12/11/24 16:20
13C2-PFTeDA	70.5		10-130		12/11/24 16:20
13C3-PFBS	82.6		40-135		12/11/24 16:20
13C3-PFHxS	87.7		40-130		12/11/24 16:20
13C8-PFOS	83.1		40-130		12/11/24 16:20
13C2-4:2FTS	**264**	*	40-200	PF-17	12/11/24 16:20
13C2-6:2FTS	**207**	*	40-200	PF-18	12/11/24 16:20
13C2-8:2FTS	131		40-300		12/11/24 16:20
13C8-PFOSA	82.6		40-130		12/11/24 16:20
D3-NMeFOSA	67.6		10-130		12/11/24 16:20
D5-NEtFOSA	63.7		10-130		12/11/24 16:20
D3-NMeFOSAA	99.0		40-170		12/11/24 16:20
D5-NEtFOSAA	107		25-135		12/11/24 16:20
D7-NMeFOSE	66.6		10-130		12/11/24 16:20
D9-NEtFOSE	63.1		10-130		12/11/24 16:20
13C3-HFPO-DA	85.4		40-130		12/11/24 16:20

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
gamma-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Aldrin [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
alpha-BHC [2]	ND	0.049	0.022	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
beta-BHC [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
delta-BHC [2]	ND	0.049	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
gamma-BHC (Lindane) [2]	ND	0.029	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
4,4'-DDD [2]	ND	0.039	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
4,4'-DDE [2]	ND	0.039	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
4,4'-DDT [2]	ND	0.039	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Dieldrin [2]	ND	0.0020	0.00098	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endosulfan I [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endosulfan II [2]	ND	0.078	0.013	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endosulfan sulfate [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endrin [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endrin aldehyde [2]	ND	0.078	0.020	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endrin ketone [2]	ND	0.078	0.018	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Heptachlor [2]	ND	0.049	0.0046	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Heptachlor epoxide [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Methoxychlor [2]	ND	0.49	0.078	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Toxaphene [2]	ND	0.98	0.41	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		11/19/24 17:09
Decachlorobiphenyl [2]	53.0	30-150		11/19/24 17:09
Tetrachloro-m-xylene [1]	80.7	30-150		11/19/24 17:09
Tetrachloro-m-xylene [2]	82.7	30-150		11/19/24 17:09

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1221 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1232 [1]	ND	0.20	0.092	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1242 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1248 [1]	ND	0.20	0.092	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1260 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1262 [1]	ND	0.20	0.081	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1268 [1]	ND	0.20	0.074	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.8	30-150		11/19/24 14:33
Decachlorobiphenyl [2]	58.2	30-150		11/19/24 14:33
Tetrachloro-m-xylene [1]	83.6	30-150		11/19/24 14:33
Tetrachloro-m-xylene [2]	89.3	30-150		11/19/24 14:33

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.056	0.050	0.025	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:27	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Barium	0.44	0.050	0.0098	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Calcium	180	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Iron	29	0.050	0.036	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Magnesium	20	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Manganese	0.84	0.010	0.0018	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/26/24	11/27/24 3:38	MJH
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Potassium	12	2.0	0.47	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:27	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Sodium	740	20	3.8	mg/L	10	MS-19	SW-846 6010D	11/15/24	11/23/24 16:21	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Vanadium	0.0087	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET
Hexavalent Chromium	ND	0.0040	0.0029	mg/L	1	MS-07A, H-10	SW-846 7196A	11/18/24	11/18/24 13:17	NRH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1M | Sampled: 11/11/2024 14:50

Sample ID: 24K1058-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05, L-04 UJ	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Benzene	11	1.0	0.14	µg/L	1	V-06 UJ	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Butyl Alcohol (TBA)	52	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
n-Butylbenzene	0.56	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
sec-Butylbenzene	1.0	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Butylbenzene	0.32	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
cis-1,2-Dichloroethylene	0.57	1.0	0.20	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Diisopropyl Ether (DIPE)	0.21	0.50	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Isopropylbenzene (Cumene)	1.7	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
p-Isopropyltoluene (p-Cymene)	3.2	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1M | Sampled: 11/11/2024 14:50

Sample ID: 24K1058-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	12	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Methyl Cyclohexane	1.7	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
n-Propylbenzene	1.5	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Tetrachloroethylene	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Toluene	0.16	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Vinyl Chloride	1.4	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
m+p Xylene	0.51	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
o-Xylene	0.44	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.1	70-130		11/15/24 16:02
Toluene-d8	100	70-130		11/15/24 16:02
4-Bromofluorobenzene	102	70-130		11/15/24 16:02

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chloroform	0.50	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1-Dichloroethane	0.19	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.19	1.0	0.17	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	UJ	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Styrene	ND	1.0	0.13	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Tetrachloroethylene	0.41	1.0	0.17	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Toluene	ND	1.0	0.11	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
o-Xylene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.6	70-130		11/15/24 11:22
Toluene-d8	101	70-130		11/15/24 11:22
4-Bromofluorobenzene	106	70-130		11/15/24 11:22

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Pace ANALYTICAL SERVICES

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.7	µg/L	1	V-06	UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Atrazine	ND	20	1.7	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzaldehyde	ND	10	0.73	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Biphenyl	ND	20	0.93	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Caprolactam	ND	10	0.72	µg/L	1	L-04, V-06	UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Acenaphthene	ND	5.0	0.79	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Acenaphthylene	ND	5.0	0.64	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Acetophenone	ND	10	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Aniline	ND	20	9.0	µg/L	1	V-05	UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Anthracene	ND	5.0	0.55	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(a)anthracene	ND	5.0	0.38	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(a)pyrene	ND	5.0	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(b)fluoranthene	ND	5.0	0.33	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(g,h,i)perylene	ND	5.0	0.53	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(k)fluoranthene	ND	5.0	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Bis(2-chloroethoxy)methane	ND	10	0.58	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Bis(2-chloroethyl)ether	ND	10	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.76	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.33	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Bromophenylphenylether	ND	10	0.72	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Carbazole	ND	10	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Chloroaniline	ND	10	5.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Chloro-3-methylphenol	ND	10	0.64	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Chloronaphthalene	ND	10	0.82	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Chlorophenol	ND	10	0.41	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Chlorophenylphenylether	ND	10	0.88	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Chrysene	ND	5.0	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Dibenz(a,h)anthracene	ND	5.0	0.48	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Dibenzofuran	ND	5.0	0.86	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Di-n-butylphthalate	ND	10	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
3,3-Dichlorobenzidine	ND	10	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dichlorophenol	ND	10	0.47	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Diethylphthalate	ND	10	0.56	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dimethylphenol	ND	10	0.41	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Dimethylphthalate	ND	10	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.3	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dinitrophenol	ND	10	1.3	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dinitrotoluene	ND	10	0.35	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,6-Dinitrotoluene	ND	10	0.56	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Fluoranthene	ND	5.0	0.57	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Fluorene	ND	5.0	0.77	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Hexachlorobenzene	ND	10	0.73	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:06	BGL

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Hexachlorocyclopentadiene	ND	10	2.9	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Hexachloroethane	ND	10	1.3	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	0.48	µg/L	1	V-04 UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Isophorone	ND	10	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
1-Methylnaphthalene	ND	5.0	0.99	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Methylnaphthalene	ND	5.0	0.94	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Methylphenol	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
3/4-Methylphenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Naphthalene	ND	5.0	0.91	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Nitroaniline	ND	10	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
3-Nitroaniline	ND	10	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Nitroaniline	ND	10	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Nitrobenzene	ND	10	0.68	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Nitrophenol	ND	10	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
N-Nitrosodi-n-propylamine	ND	10	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Pentachlorophenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Phenanthrene	ND	5.0	0.72	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Phenol	ND	10	0.60	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Pyrene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Pyridine	ND	20	5.2	µg/L	1	V-34 UJ	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4,5-Trichlorophenol	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.2	15-110		11/22/24 20:06
Phenol-d6	28.8	15-110		11/22/24 20:06
Nitrobenzene-d5	78.8	30-130		11/22/24 20:06
2-Fluorobiphenyl	72.2	30-130		11/22/24 20:06
2,4,6-Tribromophenol	77.9	15-110		11/22/24 20:06
p-Terphenyl-d14	90.3	30-130		11/22/24 20:06

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.25	0.19	0.031	µg/L	1		SW-846 8270E	11/14/24	11/21/24 0:13	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	21.8	15-110		11/21/24 0:13	

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	6.1	0.77	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoropentanoic acid (PFPeA)	10	3.1	0.43	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorohexanoic acid (PFHxA)	10	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoroheptanoic acid (PFHpA)	5.9	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorooctanoic acid (PFOA)	12	1.5	0.40	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorobutanesulfonic acid (PFBS)	0.70	1.5	0.33	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoropentanesulfonic acid (PFPeS)	0.66	1.5	0.45	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.5	0.59	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.81	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorooctanesulfonic acid (PFOS)	2.2	1.5	0.38	ng/L	1	PF-23	Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	2.9	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	3.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.53	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.1	0.81	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
9Cl-PF3ONS (F53B Minor)	ND	6.1	0.90	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
11Cl-PF3OUdS (F53B Major)	ND	6.1	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	6.7	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	8.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.54	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB

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Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.41	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	77.2	5-130		12/11/24 16:30
13C5-PFPeA	73.1	40-130		12/11/24 16:30
13C5-PFHxA	75.7	40-130		12/11/24 16:30
13C4-PFHpA	73.0	40-130		12/11/24 16:30
13C8-PFOA	81.7	40-130		12/11/24 16:30
13C9-PFNA	76.2	40-130		12/11/24 16:30
13C6-PFDA	75.3	40-130		12/11/24 16:30
13C7-PFUnA	70.7	30-130		12/11/24 16:30
13C2-PFDoA	69.9	10-130		12/11/24 16:30
13C2-PFTeDA	66.9	10-130		12/11/24 16:30
13C3-PFBS	74.8	40-135		12/11/24 16:30
13C3-PFHxS	73.1	40-130		12/11/24 16:30
13C8-PFOS	73.2	40-130		12/11/24 16:30
13C2-4:2FTS	75.3	40-200		12/11/24 16:30
13C2-6:2FTS	69.1	40-200		12/11/24 16:30
13C2-8:2FTS	67.8	40-300		12/11/24 16:30
13C8-PFOSA	66.2	40-130		12/11/24 16:30
D3-NMeFOSA	54.7	10-130		12/11/24 16:30
D5-NEtFOSA	56.1	10-130		12/11/24 16:30
D3-NMeFOSAA	80.1	40-170		12/11/24 16:30
D5-NEtFOSAA	82.2	25-135		12/11/24 16:30
D7-NMeFOSE	56.0	10-130		12/11/24 16:30
D9-NEtFOSE	55.5	10-130		12/11/24 16:30
13C3-HFPO-DA	84.4	40-130		12/11/24 16:30

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
gamma-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Aldrin [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
alpha-BHC [2]	ND	0.049	0.021	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
beta-BHC [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
delta-BHC [2]	ND	0.049	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
gamma-BHC (Lindane) [2]	ND	0.029	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
4,4'-DDD [2]	ND	0.039	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
4,4'-DDE [2]	ND	0.039	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
4,4'-DDT [2]	ND	0.039	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Dieldrin [2]	ND	0.0019	0.00097	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endosulfan I [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endosulfan II [2]	ND	0.078	0.013	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endosulfan sulfate [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endrin [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endrin aldehyde [2]	ND	0.078	0.020	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endrin ketone [2]	ND	0.078	0.018	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Heptachlor [2]	ND	0.049	0.0046	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Heptachlor epoxide [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Methoxychlor [2]	ND	0.49	0.077	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Toxaphene [2]	ND	0.97	0.41	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		11/19/24 17:21
Decachlorobiphenyl [2]	97.4	30-150		11/19/24 17:21
Tetrachloro-m-xylene [1]	85.1	30-150		11/19/24 17:21
Tetrachloro-m-xylene [2]	89.3	30-150		11/19/24 17:21

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1221 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1232 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1248 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1262 [1]	ND	0.19	0.080	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1268 [1]	ND	0.19	0.074	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.9	30-150		11/19/24 14:50
Decachlorobiphenyl [2]	104	30-150		11/19/24 14:50
Tetrachloro-m-xylene [1]	81.5	30-150		11/19/24 14:50
Tetrachloro-m-xylene [2]	86.1	30-150		11/19/24 14:50

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.31	0.050	0.025	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:33	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Barium	0.024	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Calcium	23	0.50	0.21	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Iron	0.56	0.050	0.036	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Magnesium	7.3	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Manganese	0.17	0.010	0.0018	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/26/24	11/27/24 3:40	MJH
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Potassium	2.1	2.0	0.47	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:33	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Sodium	23	2.0	0.38	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Zinc	0.021	0.010	0.0080	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Amyl Alcohol (TAA)	4.6	5.0	1.3	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Benzene	7.0	1.0	0.14	µg/L	1	V-06 UJ	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
n-Butylbenzene	0.32	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
sec-Butylbenzene	0.66	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Cyclohexane	3.5	5.0	1.8	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
cis-1,2-Dichloroethylene	1.1	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Ethylbenzene	0.19	1.0	0.14	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Isopropylbenzene (Cumene)	0.99	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	3.9	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Methyl Cyclohexane	1.8	1.0	0.13	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	UJ	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
n-Propylbenzene	0.64	1.0	0.11	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Styrene	ND	1.0	0.13	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Toluene	0.38	1.0	0.11	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Vinyl Chloride	1.4	2.0	0.19	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
m+p Xylene	0.66	2.0	0.25	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
o-Xylene	0.34	1.0	0.16	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1			SW-846 8260D	11/14/24	11/15/24 11:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.1	70-130		11/15/24 11:47
Toluene-d8	102	70-130		11/15/24 11:47
4-Bromofluorobenzene	105	70-130		11/15/24 11:47

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1	V-06	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Atrazine	ND	19	1.5	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Biphenyl	ND	19	0.87	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Caprolactam	ND	9.4	0.67	µg/L	1	L-04, V-06	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Acetophenone	ND	9.4	0.47	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Aniline	ND	19	8.4	µg/L	1	V-05	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Anthracene	ND	4.7	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.4	0.71	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.30	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Carbazole	ND	9.4	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Chloro-3-methylphenol	ND	9.4	0.60	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Chloronaphthalene	ND	9.4	0.76	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Chlorophenol	ND	9.4	0.39	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Chrysene	ND	4.7	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Diethylphthalate	ND	9.4	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dimethylphenol	ND	9.4	0.39	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Fluorene	ND	4.7	0.71	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Hexachloroethane	ND	9.4	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Isophorone	ND	9.4	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
1-Methylnaphthalene	5.8	4.7	0.92	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Naphthalene	ND	4.7	0.85	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Nitrobenzene	ND	9.4	0.64	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.62	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Phenol	ND	9.4	0.56	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Pyrene	ND	4.7	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	UJ	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4,6-Trichlorophenol	ND	9.4	0.35	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.1	15-110		11/22/24 20:26
Phenol-d6	31.3	15-110		11/22/24 20:26
Nitrobenzene-d5	81.9	30-130		11/22/24 20:26
2-Fluorobiphenyl	74.6	30-130		11/22/24 20:26
2,4,6-Tribromophenol	80.9	15-110		11/22/24 20:26
p-Terphenyl-d14	85.4	30-130		11/22/24 20:26

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/14/24	11/21/24 0:34	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	25.0	15-110		11/21/24 0:34	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.5	6.2	0.78	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoropentanoic acid (PFPeA)	8.5	3.1	0.43	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorohexanoic acid (PFHxA)	3.1	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoroheptanoic acid (PFHpA)	2.1	1.6	0.28	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorooctanoic acid (PFOA)	3.2	1.6	0.41	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorononanoic acid (PFNA)	1.6	1.6	0.64	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorodecanoic acid (PFDA)	0.42	1.6	0.38	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.60	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorooctanesulfonic acid (PFOS)	2.8	1.6	0.39	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.83	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	86.1	5-130		12/11/24 16:39
13C5-PFPeA	83.7	40-130		12/11/24 16:39
13C5-PFHxA	84.5	40-130		12/11/24 16:39
13C4-PFHpA	80.9	40-130		12/11/24 16:39
13C8-PFOA	86.0	40-130		12/11/24 16:39
13C9-PFNA	85.7	40-130		12/11/24 16:39
13C6-PFDA	86.0	40-130		12/11/24 16:39
13C7-PFUnA	80.3	30-130		12/11/24 16:39
13C2-PFDoA	77.0	10-130		12/11/24 16:39
13C2-PFTeDA	61.0	10-130		12/11/24 16:39
13C3-PFBS	86.3	40-135		12/11/24 16:39
13C3-PFHxS	81.8	40-130		12/11/24 16:39
13C8-PFOS	81.1	40-130		12/11/24 16:39
13C2-4:2FTS	155	40-200		12/11/24 16:39
13C2-6:2FTS	112	40-200		12/11/24 16:39
13C2-8:2FTS	82.8	40-300		12/11/24 16:39
13C8-PFOSA	77.4	40-130		12/11/24 16:39
D3-NMeFOSA	68.8	10-130		12/11/24 16:39
D5-NEtFOSA	63.4	10-130		12/11/24 16:39
D3-NMeFOSAA	90.3	40-170		12/11/24 16:39
D5-NEtFOSAA	90.8	25-135		12/11/24 16:39
D7-NMeFOSE	46.2	10-130		12/11/24 16:39
D9-NEtFOSE	39.3	10-130		12/11/24 16:39
13C3-HFPO-DA	91.7	40-130		12/11/24 16:39

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2M | Sampled: 11/11/2024 12:27

Sample ID: 24K1058-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Amyl Alcohol (TAA)	4.6	5.0	1.3	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Benzene	7.8	1.0	0.14	µg/L	1	V-06 UJ	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Butyl Alcohol (TBA)	6.3	20	3.4	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
n-Butylbenzene	0.43	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
sec-Butylbenzene	0.80	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Butylbenzene	0.18	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Cyclohexane	3.9	5.0	1.8	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
cis-1,2-Dichloroethylene	1.0	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Ethylbenzene	0.25	1.0	0.14	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Isopropylbenzene (Cumene)	1.2	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2M | Sampled: 11/11/2024 12:27

Sample ID: 24K1058-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	4.4	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Methyl Cyclohexane	2.0	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
n-Propylbenzene	0.86	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Toluene	0.48	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Vinyl Chloride	1.2	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
m+p Xylene	0.90	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
o-Xylene	0.49	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.0	70-130		11/15/24 12:13
Toluene-d8	102	70-130		11/15/24 12:13
4-Bromofluorobenzene	104	70-130		11/15/24 12:13

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2D | Sampled: 11/11/2024 11:22

Sample ID: 24K1058-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chloroform	0.69	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1-Dichloroethane	0.15	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2D | Sampled: 11/11/2024 11:22

Sample ID: 24K1058-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.52	1.0	0.17	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	UJ	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Styrene	ND	1.0	0.13	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Tetrachloroethylene	0.46	1.0	0.17	µg/L	1	J		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Toluene	ND	1.0	0.11	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
o-Xylene	ND	1.0	0.16	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1			SW-846 8260D	11/14/24	11/15/24 12:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.5	70-130		11/15/24 12:38
Toluene-d8	101	70-130		11/15/24 12:38
4-Bromofluorobenzene	103	70-130		11/15/24 12:38

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.2	50	2.0	µg/L	1	L-04, V-05, J UJ	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	7.4	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	77.2	70-130		11/15/24 13:04
Toluene-d8	111	70-130		11/15/24 13:04
4-Bromofluorobenzene	86.0	70-130		11/15/24 13:04

SPL 2/24/2025

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1	V-06	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Atrazine	ND	18	1.5	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Biphenyl	ND	18	0.84	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04, V-06	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Acenaphthene	ND	4.5	0.72	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Acetophenone	ND	9.1	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Aniline	ND	18	8.2	µg/L	1	V-05	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Anthracene	ND	4.5	0.49	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(a)pyrene	ND	4.5	0.40	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(g,h,i)perylene	ND	4.5	0.48	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(k)fluoranthene	ND	4.5	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.1	0.68	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.29	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Carbazole	ND	9.1	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Chlorophenylphenylether	ND	9.1	0.79	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Chrysene	ND	4.5	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Dibenzofuran	ND	4.5	0.78	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dinitrophenol	ND	9.1	1.2	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Fluorene	ND	4.5	0.69	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Hexachloroethane	ND	9.1	1.1	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Isophorone	ND	9.1	0.49	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
1-Methylnaphthalene	ND	4.5	0.89	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Methylnaphthalene	ND	4.5	0.85	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Naphthalene	ND	4.5	0.82	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Nitrobenzene	ND	9.1	0.61	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Nitrophenol	ND	9.1	0.49	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Nitrophenol	ND	9.1	1.2	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Phenol	ND	9.1	0.54	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Pyrene	ND	4.5	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Pyridine	ND	18	4.7	µg/L	1	V-34	UJ	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1			SW-846 8270E	11/14/24	11/22/24 20:47	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	31.2	15-110		11/22/24 20:47
Phenol-d6	21.8	15-110		11/22/24 20:47
Nitrobenzene-d5	74.0	30-130		11/22/24 20:47
2-Fluorobiphenyl	68.4	30-130		11/22/24 20:47
2,4,6-Tribromophenol	62.4	15-110		11/22/24 20:47
p-Terphenyl-d14	87.4	30-130		11/22/24 20:47

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.27	0.19	0.032	µg/L	1		SW-846 8270E	11/14/24	11/21/24 0:54	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	20.3	15-110		11/21/24 0:54	

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.5	6.2	0.78	ng/L	1	J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoropentanoic acid (PFPeA)	8.3	3.1	0.43	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorohexanoic acid (PFHxA)	7.2	1.6	0.27	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoroheptanoic acid (PFHpA)	3.7	1.6	0.27	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorooctanoic acid (PFOA)	7.5	1.6	0.41	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorononanoic acid (PFNA)	1.7	1.6	0.64	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorodecanoic acid (PFDA)	0.41	1.6	0.38	ng/L	1	J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorobutanesulfonic acid (PFBS)	0.42	1.6	0.34	ng/L	1	PF-22, J J-	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorohexanesulfonic acid (PFHxS)	1.1	1.6	0.60	ng/L	1	J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorooctanesulfonic acid (PFOS)	3.7	1.6	0.39	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.45	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1	PF-17	Draft Method 1633	12/4/24	12/7/24 21:30	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.83	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	60.9		5-130		12/7/24 21:30
13C5-PFPeA	71.9		40-130		12/7/24 21:30
13C5-PFHxA	81.6		40-130		12/7/24 21:30
13C4-PFHpA	84.7		40-130		12/7/24 21:30
13C8-PFOA	87.3		40-130		12/7/24 21:30
13C9-PFNA	86.0		40-130		12/7/24 21:30
13C6-PFDA	84.1		40-130		12/7/24 21:30
13C7-PFUnA	81.1		30-130		12/7/24 21:30
13C2-PFDoA	64.9		10-130		12/7/24 21:30
13C2-PFTeDA	21.9		10-130		12/7/24 21:30
13C3-PFBS	80.9		40-135		12/7/24 21:30
13C3-PFHxS	84.6		40-130		12/7/24 21:30
13C8-PFOS	79.6		40-130		12/7/24 21:30
13C2-4:2FTS	**255**	*	40-200	PF-17	12/7/24 21:30
13C2-6:2FTS	188		40-200		12/7/24 21:30
13C2-8:2FTS	119		40-300		12/7/24 21:30
13C8-PFOSA	70.9		40-130		12/7/24 21:30
D3-NMeFOSA	40.9		10-130		12/7/24 21:30
D5-NEtFOSA	32.8		10-130		12/7/24 21:30
D3-NMeFOSAA	95.2		40-170		12/7/24 21:30
D5-NEtFOSAA	91.1		25-135		12/7/24 21:30
D7-NMeFOSE	54.7		10-130		12/7/24 21:30
D9-NEtFOSE	49.7		10-130		12/7/24 21:30
13C3-HFPO-DA	82.8		40-130		12/7/24 21:30

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
gamma-Chlordane [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Aldrin [2]	ND	0.046	0.0041	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
alpha-BHC [2]	ND	0.046	0.020	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
beta-BHC [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
delta-BHC [2]	ND	0.046	0.014	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
gamma-BHC (Lindane) [2]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
4,4'-DDD [2]	ND	0.037	0.0041	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
4,4'-DDE [2]	ND	0.037	0.0036	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
4,4'-DDT [2]	ND	0.037	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Dieldrin [2]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endosulfan I [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endosulfan II [2]	ND	0.074	0.012	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endosulfan sulfate [2]	ND	0.074	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endrin [2]	ND	0.074	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endrin aldehyde [2]	ND	0.074	0.019	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endrin ketone [2]	ND	0.074	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Heptachlor [2]	ND	0.046	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Heptachlor epoxide [2]	ND	0.046	0.0041	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Methoxychlor [2]	ND	0.46	0.073	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Toxaphene [2]	ND	0.92	0.39	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.5	30-150		11/19/24 17:33
Decachlorobiphenyl [2]	42.7	30-150		11/19/24 17:33
Tetrachloro-m-xylene [1]	53.1	30-150		11/19/24 17:33
Tetrachloro-m-xylene [2]	56.9	30-150		11/19/24 17:33

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1221 [1]	ND	0.18	0.096	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1232 [1]	ND	0.18	0.086	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1242 [1]	ND	0.18	0.099	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1248 [1]	ND	0.18	0.087	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1254 [1]	ND	0.18	0.097	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1262 [1]	ND	0.18	0.076	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1268 [1]	ND	0.18	0.070	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	43.9	30-150		11/19/24 15:02
Decachlorobiphenyl [2]	46.1	30-150		11/19/24 15:02
Tetrachloro-m-xylene [1]	54.1	30-150		11/19/24 15:02
Tetrachloro-m-xylene [2]	57.1	30-150		11/19/24 15:02

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7.2	0.050	0.025	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:55	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Arsenic	0.010	0.010	0.0050	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Barium	0.15	0.050	0.0098	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Calcium	85	0.50	0.21	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Chromium	0.023	0.010	0.0053	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Cobalt	0.012	0.010	0.0027	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Copper	0.017	0.010	0.0095	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Iron	17	0.050	0.036	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Lead	0.039	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Magnesium	36	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Manganese	8.7	0.010	0.0018	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Mercury	0.00013	0.00020	0.00012	mg/L	1	J	SW-846 7470A	12/5/24	12/9/24 14:32	AAJ
Nickel	0.016	0.010	0.0046	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Potassium	19	2.0	0.47	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:55	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Sodium	390	2.0	0.38	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Vanadium	0.044	0.010	0.0054	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Zinc	0.10	0.010	0.0080	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.087	0.050	0.025	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Antimony	0.028	0.050	0.011	mg/L	1	J	SW-846 6010D	11/26/24	12/2/24 18:06	HNN
Arsenic	0.0099	0.010	0.0050	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Barium	0.098	0.050	0.0098	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Calcium	78	0.50	0.21	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Cobalt	0.0030	0.010	0.0027	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/26/24	12/2/24 18:06	HNN
Iron	0.14	0.050	0.036	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Magnesium	35	0.050	0.016	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Manganese	8.2	0.010	0.0018	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/27/24	12/2/24 15:48	AAJ
Nickel	0.0062	0.010	0.0046	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Potassium	17	2.0	0.47	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Sodium	370	2.0	0.38	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Vanadium	0.0062	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Zinc	0.020	0.010	0.0080	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3M | Sampled: 11/11/2024 12:50

Sample ID: 24K1058-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1-Dichloroethane	0.27	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3M | Sampled: 11/11/2024 12:50

Sample ID: 24K1058-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.9	70-130		11/15/24 13:29
Toluene-d8	110	70-130		11/15/24 13:29
4-Bromofluorobenzene	105	70-130		11/15/24 13:29

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3D | Sampled: 11/11/2024 10:00

Sample ID: 24K1058-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chloroform	0.76	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1-Dichloroethane	0.17	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3D | Sampled: 11/11/2024 10:00

Sample ID: 24K1058-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.60	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Tetrachloroethylene	0.48	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.2	70-130		11/15/24 13:55
Toluene-d8	101	70-130		11/15/24 13:55
4-Bromofluorobenzene	106	70-130		11/15/24 13:55

SPL 2/24/2025

Pace ANALYTICAL SERVICES

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.7	50	2.0	µg/L	1	L-04, V-05, J UJ	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Benzene	0.24	1.0	0.14	µg/L	1	V-06, J UJ	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Butyl Alcohol (TBA)	25	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
cis-1,2-Dichloroethylene	1.2	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.0	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Vinyl Chloride	0.42	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.3	70-130		11/15/24 14:20
Toluene-d8	102	70-130		11/15/24 14:20
4-Bromofluorobenzene	104	70-130		11/15/24 14:20

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual		Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.2	µg/L	1	V-06	UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Atrazine	ND	19	1.5	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Biphenyl	ND	19	0.85	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Caprolactam	6.7	9.3	0.66	µg/L	1	L-04, V-06, J	UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Acetophenone	ND	9.3	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Aniline	ND	19	8.3	µg/L	1	V-05	UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Anthracene	ND	4.6	0.50	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.3	0.69	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Carbazole	ND	9.3	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Chrysene	ND	4.6	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Di-n-butylphthalate	ND	9.3	0.46	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
3,3-Dichlorobenzidine	ND	9.3	0.42	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Dimethylphthalate	ND	9.3	0.40	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dinitrophenol	ND	9.3	1.2	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-04	UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Fluorene	ND	4.6	0.70	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1			SW-846 8270E	11/14/24	11/22/24 21:08	BGL

SPL 2/24/2024

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Hexachloroethane	ND	9.3	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1	V-04 UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
1-Methylnaphthalene	1.5	4.6	0.91	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Methylphenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
3/4-Methylphenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Nitroaniline	ND	9.3	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Nitrophenol	ND	9.3	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Pentachlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Pyrene	ND	4.6	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34 UJ	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.6	15-110		11/22/24 21:08
Phenol-d6	26.9	15-110		11/22/24 21:08
Nitrobenzene-d5	71.9	30-130		11/22/24 21:08
2-Fluorobiphenyl	67.3	30-130		11/22/24 21:08
2,4,6-Tribromophenol	78.6	15-110		11/22/24 21:08
p-Terphenyl-d14	87.0	30-130		11/22/24 21:08

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.17	0.20	0.032	µg/L	1	J	SW-846 8270E	11/14/24	11/23/24 5:04	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	23.0	15-110		11/23/24 5:04	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4M | Sampled: 11/11/2024 14:48

Sample ID: 24K1058-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05 UJ	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Benzene	0.28	1.0	0.14	µg/L	1	V-06, J UJ	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Butyl Alcohol (TBA)	24	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
sec-Butylbenzene	0.24	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05 UJ	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
cis-1,2-Dichloroethylene	1.4	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Isopropylbenzene (Cumene)	0.44	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH

SPL 2/24/2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4M | Sampled: 11/11/2024 14:48

Sample ID: 24K1058-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.5	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
n-Propylbenzene	0.28	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Trichloroethylene	0.20	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Vinyl Chloride	0.75	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
o-Xylene	0.17	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.9	70-130		11/15/24 14:46
Toluene-d8	101	70-130		11/15/24 14:46
4-Bromofluorobenzene	101	70-130		11/15/24 14:46

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4D | Sampled: 11/11/2024 13:33

Sample ID: 24K1058-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chloroform	0.56	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1-Dichloroethane	0.21	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4D | Sampled: 11/11/2024 13:33

Sample ID: 24K1058-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.48	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Tetrachloroethylene	0.47	1.0	0.17	µg/L	1	V-06, J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/18/24 13:05
Toluene-d8	103	70-130		11/18/24 13:05
4-Bromofluorobenzene	107	70-130		11/18/24 13:05

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chloroform	0.53	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1-Dichloroethane	0.18	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.21	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Tetrachloroethylene	0.63	1.0	0.17	µg/L	1	V-06, J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		11/18/24 12:40
Toluene-d8	102	70-130		11/18/24 12:40
4-Bromofluorobenzene	104	70-130		11/18/24 12:40

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.048	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
gamma-Chlordane [2]	ND	0.048	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Aldrin [2]	ND	0.048	0.0042	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
alpha-BHC [2]	ND	0.048	0.021	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
beta-BHC [2]	ND	0.048	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
delta-BHC [2]	ND	0.048	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
gamma-BHC (Lindane) [2]	ND	0.029	0.0039	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
4,4'-DDD [2]	ND	0.038	0.0042	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
4,4'-DDE [2]	ND	0.038	0.0037	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
4,4'-DDT [2]	ND	0.038	0.0039	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Dieldrin [2]	ND	0.0019	0.00096	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endosulfan I [2]	ND	0.048	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endosulfan II [2]	ND	0.077	0.013	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endosulfan sulfate [2]	ND	0.077	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endrin [2]	ND	0.077	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endrin aldehyde [2]	ND	0.077	0.019	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endrin ketone [2]	ND	0.077	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Heptachlor [2]	ND	0.048	0.0045	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Heptachlor epoxide [2]	ND	0.048	0.0042	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Methoxychlor [2]	ND	0.48	0.076	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Toxaphene [2]	ND	0.96	0.40	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.7	30-150		11/19/24 17:45
Decachlorobiphenyl [2]	100	30-150		11/19/24 17:45
Tetrachloro-m-xylene [1]	82.9	30-150		11/19/24 17:45
Tetrachloro-m-xylene [2]	86.3	30-150		11/19/24 17:45

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1221 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1232 [1]	ND	0.19	0.090	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1248 [1]	ND	0.19	0.090	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1262 [1]	ND	0.19	0.079	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1268 [1]	ND	0.19	0.073	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		11/19/24 15:15
Decachlorobiphenyl [2]	107	30-150		11/19/24 15:15
Tetrachloro-m-xylene [1]	80.5	30-150		11/19/24 15:15
Tetrachloro-m-xylene [2]	86.2	30-150		11/19/24 15:15

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET
Hexavalent Chromium	ND	0.0040	0.0029	mg/L	1	H-10	SW-846 7196A	11/18/24	11/18/24 13:17	NRH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: Trip Blank-111124 | Sampled: 11/11/2024 00:00

Sample ID: 24K1058-14

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: Trip Blank-111124 | Sampled: 11/11/2024 00:00

Sample ID: 24K1058-14

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Toluene	0.15	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/18/24 11:23
Toluene-d8	99.8	70-130		11/18/24 11:23
4-Bromofluorobenzene	101	70-130		11/18/24 11:23

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Pace New England	Lab Number	: L2467064
Project Name	: 24K1058	Project Number	: 24K1058
Lab ID	: L2467064-01	Date Collected	: 11/12/24 13:10
Client ID	: MW-1S	Date Received	: 11/14/24
Sample Location	:	Date Analyzed	: 11/19/24 17:25
Sample Matrix	: WATER	Date Extracted	: 11/18/24
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 16241119a-35	Analyst	: EMR
Sample Amount	: 1000 ml	Instrument ID	: PEST16
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
93-65-2	MCPP	ND	500	58.5	U	
94-74-6	MCPA	ND	500	63.2	U	
75-99-0	Dalapon	ND	20.0	0.810	U	
1918-00-9	Dicamba	ND	1.00	0.243	U	
120-36-5	Dichloroprop	ND	10.0	0.564	U	
94-75-7	2,4-D	ND	10.0	0.498	U	
94-82-6	2,4-DB	ND	10.0	0.729	U	
93-76-5	2,4,5-T	ND	2.00	0.531	U	
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U	
88-85-7	Dinoseb	ND	5.00	0.573	U	UJ

SPL 2/24/2025

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Pace New England	Lab Number	: L2467064
Project Name	: 24K1058	Project Number	: 24K1058
Lab ID	: L2467064-02	Date Collected	: 11/12/24 10:40
Client ID	: MW-1D	Date Received	: 11/14/24
Sample Location	:	Date Analyzed	: 11/19/24 18:24
Sample Matrix	: WATER	Date Extracted	: 11/17/24
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 16241119a-38	Analyst	: EMR
Sample Amount	: 1000 ml	Instrument ID	: PEST16
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
93-65-2	MCPP	ND	500	58.5	U	
94-74-6	MCPA	ND	500	63.2	U	
75-99-0	Dalapon	ND	20.0	0.810	U	
1918-00-9	Dicamba	ND	1.00	0.243	U	
120-36-5	Dichloroprop	ND	10.0	0.564	U	
94-75-7	2,4-D	ND	10.0	0.498	U	
94-82-6	2,4-DB	ND	10.0	0.729	U	
93-76-5	2,4,5-T	ND	2.00	0.531	U	
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U	
88-85-7	Dinoseb	ND	5.00	0.573	U	UJ

SPL 2/24/2025

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Pace New England	Lab Number	: L2467064
Project Name	: 24K1058	Project Number	: 24K1058
Lab ID	: L2467064-03	Date Collected	: 11/12/24 13:04
Client ID	: MW-3S	Date Received	: 11/14/24
Sample Location	:	Date Analyzed	: 11/19/24 18:42
Sample Matrix	: WATER	Date Extracted	: 11/17/24
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 16241119a-39	Analyst	: EMR
Sample Amount	: 1000 ml	Instrument ID	: PEST16
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
93-65-2	MCPP	ND	500	58.5	U	
94-74-6	MCPA	ND	500	63.2	U	
75-99-0	Dalapon	ND	20.0	0.810	U	
1918-00-9	Dicamba	ND	1.00	0.243	U	
120-36-5	Dichloroprop	ND	10.0	0.564	U	
94-75-7	2,4-D	ND	10.0	0.498	U	
94-82-6	2,4-DB	ND	10.0	0.729	U	
93-76-5	2,4,5-T	ND	2.00	0.531	U	
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U	
88-85-7	Dinoseb	ND	5.00	0.573	U	UJ

SPL 2/24/2025

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Pace New England	Lab Number	: L2467064
Project Name	: 24K1058	Project Number	: 24K1058
Lab ID	: L2467064-04	Date Collected	: 11/12/24 00:00
Client ID	: DUP-111224	Date Received	: 11/14/24
Sample Location	:	Date Analyzed	: 11/19/24 19:02
Sample Matrix	: WATER	Date Extracted	: 11/17/24
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 16241119a-40	Analyst	: EMR
Sample Amount	: 1000 ml	Instrument ID	: PEST16
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U UJ

SPL 2/24/2025

VALIDATA

Chemical Services, Inc.

2634 Nutwood Trace, Duluth, GA 30097

(770) 232-0130
(770) 232-5082 (Fax)
www.datavalidator.com

DATA USABILITY SUMMARY
REPORT

COMPANY:	ARCADIS U.S., Inc.
SITE NAME:	Former Commander Oil Terminal
CONTRACTED LAB:	Pace – New England
QA/QC LEVEL:	DUSR
EPA SOW/METHODS:	SW-846
VALIDATION GUIDELINES:	USEPA Region II data validation SOPs
SAMPLE MATRIX:	Air
TYPES OF ANALYSES:	Volatile Organics (VOA)
DATA REVIEWER(S):	Steve Learn
SDG NUMBER:	L2466371
SAMPLING DATES:	November 11, 2024

SAMPLES:

Client Sample #	Lab Sample #	Matrix	VOA
SG-1	L2466371-01	Air	X
SG-2	L2466371-02	Air	X
DUP-20241112	L2466371-03	Air	X
AA-20241112	L2466371-04	Air	X
SG-1DL	L2466371-01DL	Air	X
DUP-20241112DL	L2466371-03DL	Air	X

SUFFIX CODES: MD = MATRIX DUPLICATE, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, DL = Dilution

Data Qualifier Definitions

J	-	The associated numerical value is an estimated quantity.
JN	-	The compound/analyte was tentatively identified with estimated concentration.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA USABILITY SUMMARY

Pace – New England – L2466371– Organics

VOLATILE ORGANICS

SUMMARY

I.) General:

The analyses for Volatile Organics were performed by GC / MS according to SW-846 Method TO-15.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification.

III.) Holding Times:

All Holding Time criteria were met. No action was required.

IV.) GC / MS Tuning:

All GC / MS Tuning criteria were met. No action was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No further action was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No further action was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blank associated with this SDG. No action was necessary.

VII.) Surrogate Recoveries:

Surrogate Recovery data were not required for this method. No action was taken.

VIII.) Laboratory Control Samples (LCS):

There were two LCS analyzed as part of this SDG. For the LCS analyzed 12/7/2024 the following outliers were identified.

Analyte	% Recovery	QC Limits
Vinyl Chloride	68%	70-130%
Chloroethane	68%	70-130%
Trans-1,2-Dichloroethene	69%	70-130%
1,1-Dichloroethane	69%	70-130%
2-Butanone	65%	70-130%
Toluene	68%	70-130%
Tetrachloroethane	63%	70-130%
Chlorobenzene	67%	70-130%
Ethyl Benzene	67%	70-130%
1,2-Dichlorobenzene	68%	70-130%
1,2,4-Trichlorobenzene	65%	70-130%

Results for these analytes were flagged as estimated for the affected samples; positive results (J-) and negative results (UJ).

IX.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data were not required for this method. No action was taken.

X.) Field Duplicates:

Samples SG-1 and DUP-20241112 were analyzed as field duplicates. All calculable results met precision criteria. No action was taken.

XI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No action was required.

XII.) TCL Compound Identification:

All sample data were reported in accordance with the cited method.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No action was required.

Samples SG-1 and DUP-20241112 were analyzed at dilutions for cis-1,2-Dichloroethene. The results from the dilution are to be used. Results for this analyte from the undiluted analyses have been flagged as rejected (X).

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-01	Date Collected	: 11/12/24 10:33
Client ID	: SG-1	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 02:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231408	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.409	0.200	--	2.02	0.989	--		
74-87-3	Chloromethane	0.254	0.200	--	0.525	0.413	--		
76-14-2	Freon-114	ND	0.050	--	ND	0.349	--	U	
75-01-4	Vinyl chloride	0.079	0.020	--	0.202	0.051	--	J-	
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U	
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U	UJ
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U	
75-69-4	Trichlorofluoromethane	0.175	0.050	--	0.983	0.281	--		
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U	
75-65-0	Tert-Butyl Alcohol	2.49	0.500	--	7.55	1.52	--		
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U	
76-13-1	Freon-113	0.059	0.050	--	0.452	0.383	--		
156-60-5	trans-1,2-Dichloroethene	2.38	0.020	--	9.44	0.079	--		J-
75-34-3	1,1-Dichloroethane	0.335	0.020	--	1.36	0.081	--		J-
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U	
78-93-3	2-Butanone	1.60	0.500	--	4.72	1.47	--		J-
156-59-2	cis-1,2-Dichloroethene	99.8	0.020	--	396	0.079	--	E	X
67-66-3	Chloroform	0.228	0.020	--	1.11	0.098	--		
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U	
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U	
56-23-5	Carbon tetrachloride	0.046	0.020	--	0.289	0.126	--		
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U	
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U	
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U	

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-01	Date Collected	: 11/12/24 10:33
Client ID	: SG-1	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 02:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231408	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	18.2	0.020	--	97.8	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.358	0.200	--	1.47	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.220	0.100	--	0.829	0.377	--	J-
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	0.072	0.020	--	0.488	0.136	--	J-
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U UJ
100-41-4	Ethylbenzene	0.072	0.020	--	0.313	0.087	--	J-
179601-23-1	p/m-Xylene	0.267	0.040	--	1.16	0.174	--	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
100-42-5	Styrene	ND	0.020	--	ND	0.085	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.103	0.020	--	0.447	0.087	--	
108-67-8	1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--	U
95-63-6	1,2,4-Trimethylbenzene	0.225	0.020	--	1.11	0.098	--	
100-44-7	Benzyl chloride	ND	0.100	--	ND	0.518	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	0.063	0.020	--	0.379	0.120	--	
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U UJ
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U UJ

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-01	Date Collected	: 11/12/24 10:33
Client ID	: SG-1	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 02:02
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231408	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
91-20-3	Naphthalene	0.151	0.050	--	0.792	0.262	--	
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-01D	Date Collected	: 11/12/24 10:33
Client ID	: SG-1	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 14:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 5
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R228235_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 50.0 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	91.0	0.100	--	361	0.396	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-02	Date Collected	: 11/12/24 10:31
Client ID	: SG-2	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 02:41
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231409	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.365	0.200	--	1.80	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	0.030	0.020	--	0.077	0.051	--	J-
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U UJ
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
75-69-4	Trichlorofluoromethane	0.158	0.050	--	0.888	0.281	--	
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-65-0	Tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
76-13-1	Freon-113	0.053	0.050	--	0.406	0.383	--	
156-60-5	trans-1,2-Dichloroethene	0.054	0.020	--	0.214	0.079	--	J-
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U UJ
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U UJ
156-59-2	cis-1,2-Dichloroethene	1.78	0.020	--	7.06	0.079	--	
67-66-3	Chloroform	0.214	0.020	--	1.05	0.098	--	
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
56-23-5	Carbon tetrachloride	0.048	0.020	--	0.302	0.126	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-02	Date Collected	: 11/12/24 10:31
Client ID	: SG-2	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 02:41
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231409	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	11.8	0.020	--	63.4	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.378	0.200	--	1.55	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.260	0.100	--	0.980	0.377	--	J-
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	0.076	0.020	--	0.515	0.136	--	J-
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U UJ
100-41-4	Ethylbenzene	0.063	0.020	--	0.274	0.087	--	J-
179601-23-1	p/m-Xylene	0.232	0.040	--	1.01	0.174	--	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
100-42-5	Styrene	0.023	0.020	--	0.098	0.085	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.097	0.020	--	0.421	0.087	--	
108-67-8	1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--	U
95-63-6	1,2,4-Trimethylbenzene	0.281	0.020	--	1.38	0.098	--	
100-44-7	Benzyl chloride	ND	0.100	--	ND	0.518	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	0.058	0.020	--	0.349	0.120	--	
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U UJ
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U UJ

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-02	Date Collected	: 11/12/24 10:31
Client ID	: SG-2	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 02:41
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231409	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
91-20-3	Naphthalene	0.141	0.050	--	0.739	0.262	--	
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-03	Date Collected	: 11/12/24 10:33
Client ID	: DUP-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 03:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231410	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.366	0.200	--	1.81	0.989	--		
74-87-3	Chloromethane	0.241	0.200	--	0.498	0.413	--		
76-14-2	Freon-114	ND	0.050	--	ND	0.349	--	U	
75-01-4	Vinyl chloride	0.077	0.020	--	0.197	0.051	--		J-
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U	
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U	UJ
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U	
75-69-4	Trichlorofluoromethane	0.160	0.050	--	0.899	0.281	--		
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U	
75-65-0	Tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U	
76-13-1	Freon-113	0.055	0.050	--	0.422	0.383	--		
156-60-5	trans-1,2-Dichloroethene	2.23	0.020	--	8.84	0.079	--		J-
75-34-3	1,1-Dichloroethane	0.329	0.020	--	1.33	0.081	--		J-
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U	
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U	UJ
156-59-2	cis-1,2-Dichloroethene	95.3	0.020	--	378	0.079	--	E	X
67-66-3	Chloroform	0.216	0.020	--	1.05	0.098	--		
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U	
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U	
71-55-6	1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U	
56-23-5	Carbon tetrachloride	0.046	0.020	--	0.289	0.126	--		
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U	
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U	
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U	

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-03	Date Collected	: 11/12/24 10:33
Client ID	: DUP-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 03:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231410	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	17.6	0.020	--	94.6	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.301	0.200	--	1.23	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.203	0.100	--	0.765	0.377	--	J-
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	0.061	0.020	--	0.414	0.136	--	J-
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U UJ
100-41-4	Ethylbenzene	0.067	0.020	--	0.291	0.087	--	J-
179601-23-1	p/m-Xylene	0.254	0.040	--	1.10	0.174	--	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
100-42-5	Styrene	ND	0.020	--	ND	0.085	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.101	0.020	--	0.439	0.087	--	
108-67-8	1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--	U
95-63-6	1,2,4-Trimethylbenzene	0.293	0.020	--	1.44	0.098	--	
100-44-7	Benzyl chloride	ND	0.100	--	ND	0.518	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	0.059	0.020	--	0.355	0.120	--	
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U UJ
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U UJ

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-03	Date Collected	: 11/12/24 10:33
Client ID	: DUP-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 03:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231410	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
91-20-3	Naphthalene	0.123	0.050	--	0.645	0.262	--	
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-03D	Date Collected	: 11/12/24 10:33
Client ID	: DUP-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/07/24 15:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 5
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R228236_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 50.0 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
156-59-2	cis-1,2-Dichloroethene	81.7	0.100	--	324	0.396	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-04	Date Collected	: 11/12/24 10:36
Client ID	: AA-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/06/24 22:05
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231402	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.393	0.200	--	1.94	0.989	--	
74-87-3	Chloromethane	0.425	0.200	--	0.878	0.413	--	
76-14-2	Freon-114	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
75-69-4	Trichlorofluoromethane	0.170	0.050	--	0.955	0.281	--	
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-65-0	Tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
76-13-1	Freon-113	0.057	0.050	--	0.437	0.383	--	
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
71-43-2	Benzene	0.101	0.100	--	0.323	0.319	--	
56-23-5	Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-04	Date Collected	: 11/12/24 10:36
Client ID	: AA-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/06/24 22:05
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231402	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.398	0.200	--	1.63	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.354	0.100	--	1.33	0.377	--	
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	0.043	0.020	--	0.292	0.136	--	
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U
100-41-4	Ethylbenzene	0.101	0.020	--	0.439	0.087	--	
179601-23-1	p/m-Xylene	0.388	0.040	--	1.69	0.174	--	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
100-42-5	Styrene	0.024	0.020	--	0.102	0.085	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.142	0.020	--	0.617	0.087	--	
108-67-8	1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--	U
95-63-6	1,2,4-Trimethylbenzene	0.276	0.020	--	1.36	0.098	--	
100-44-7	Benzyl chloride	ND	0.100	--	ND	0.518	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	0.070	0.020	--	0.421	0.120	--	
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

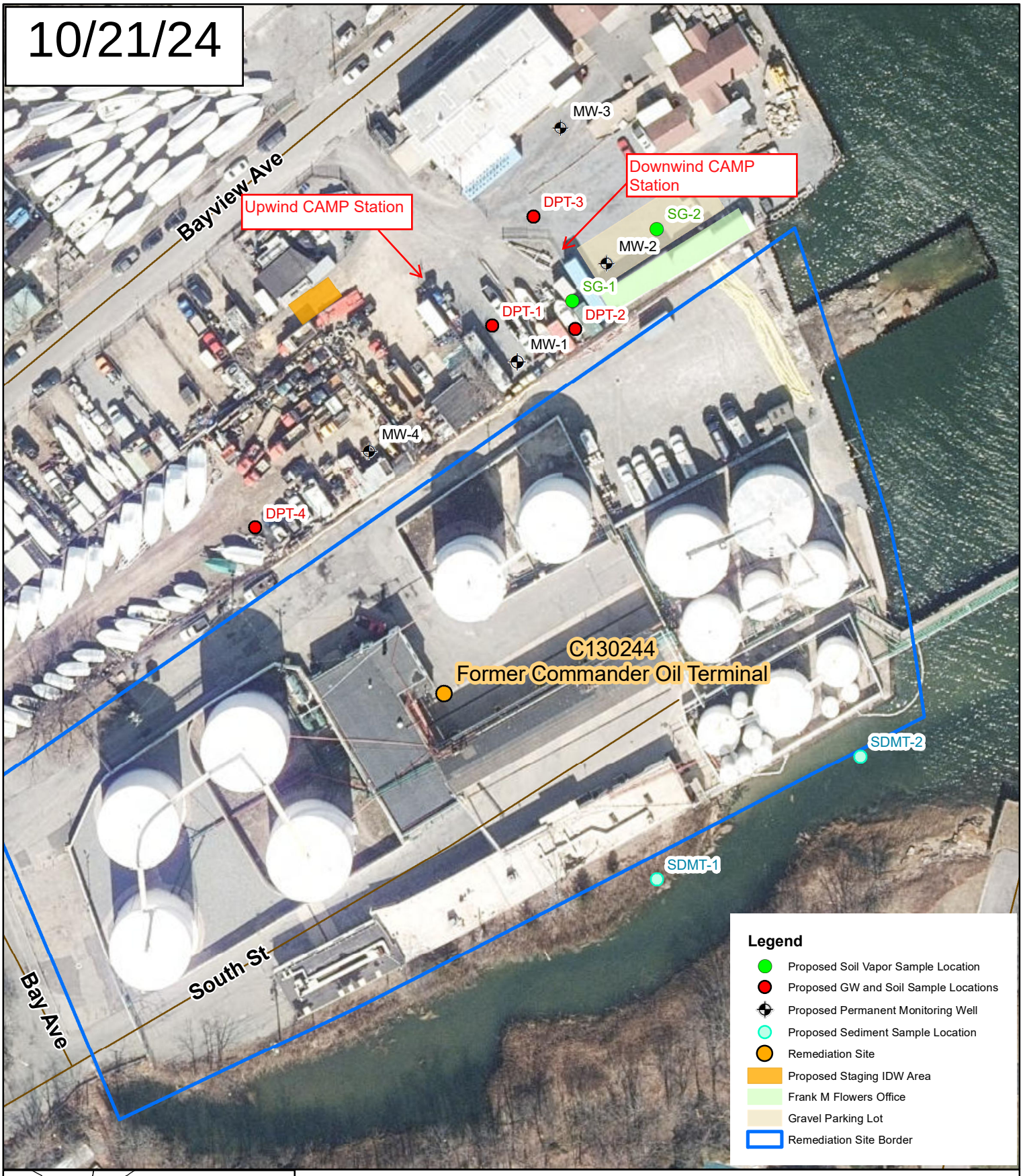
Client	: NYDEC - Arcadis US Inc.	Lab Number	: L2466371
Project Name	: FORMER COMMANDER OIL - OFFSITE	Project Number	: CO 151674/S C130244A
Lab ID	: L2466371-04	Date Collected	: 11/12/24 10:36
Client ID	: AA-20241112	Date Received	: 11/13/24
Sample Location	: OYSTER BAY, NY	Date Analyzed	: 12/06/24 22:05
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R231402	Instrument ID	: AIRLAB23
Sample Amount	: 250 ml	GC Column	: RTX-1

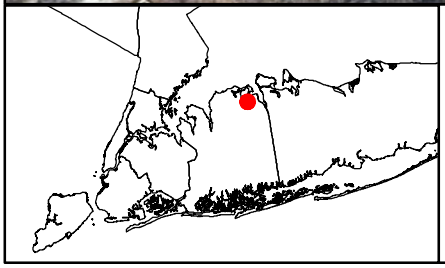
		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
91-20-3	Naphthalene	0.176	0.050	--	0.923	0.262	--	
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U

Appendix B

CAMP Data

Station Locations

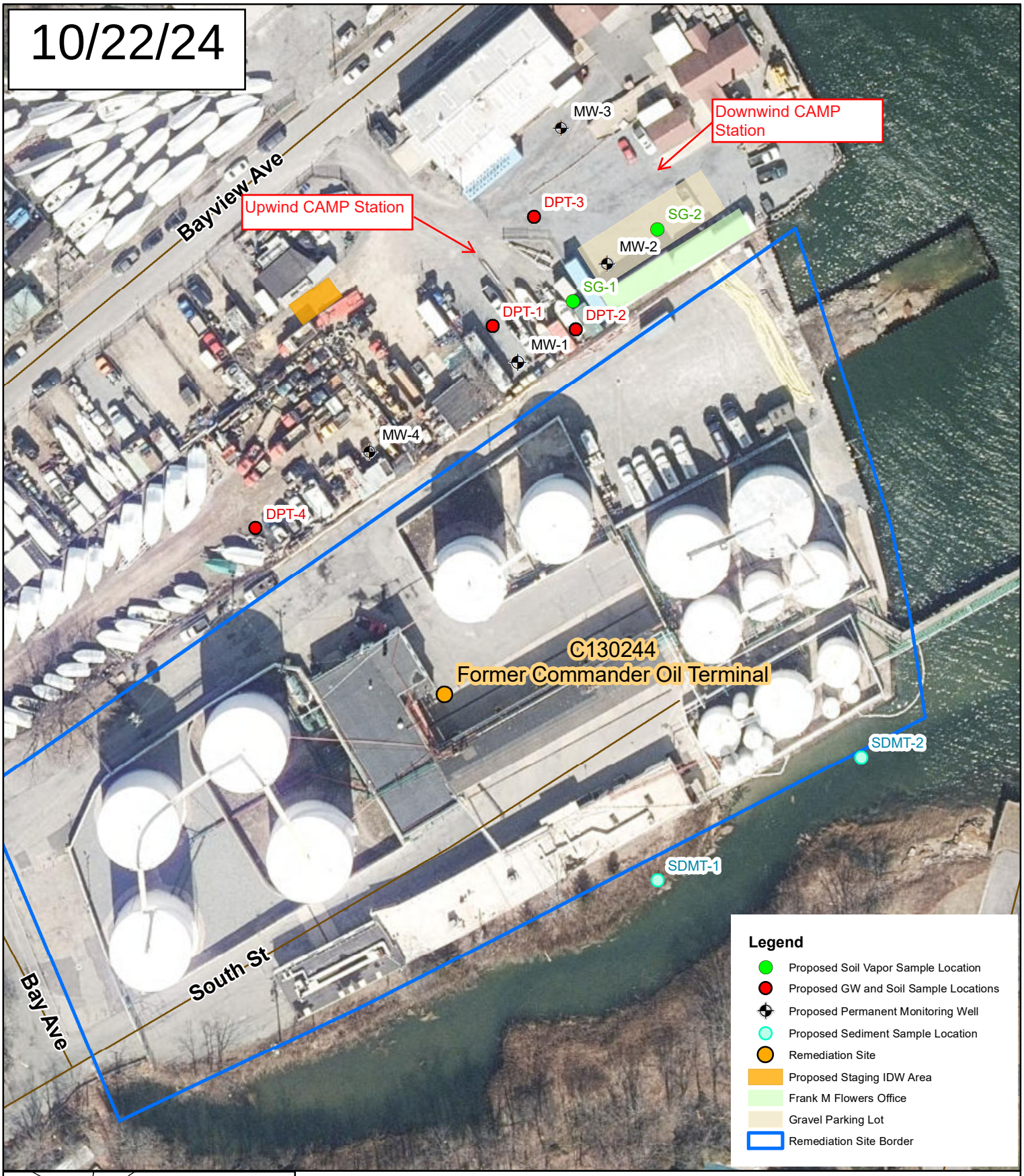


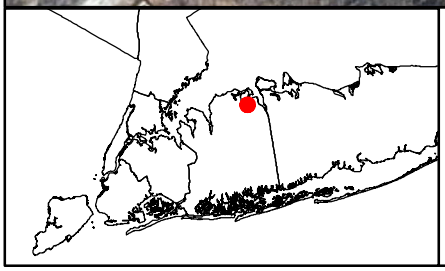


N

Proposed Sampling Locations
Former Commander Oil Terminal - Off-Site
Site No. C130244A

0 20 40 80 120 160
Feet





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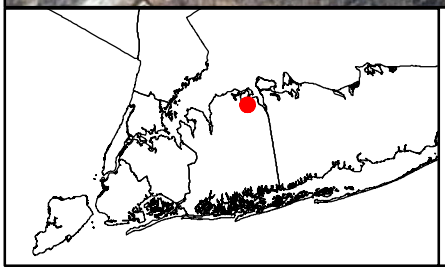
Proposed Sampling Locations
Former Commander Oil Terminal - Off-Site
Site No. C130244A

0 20 40 80 120 160
Feet



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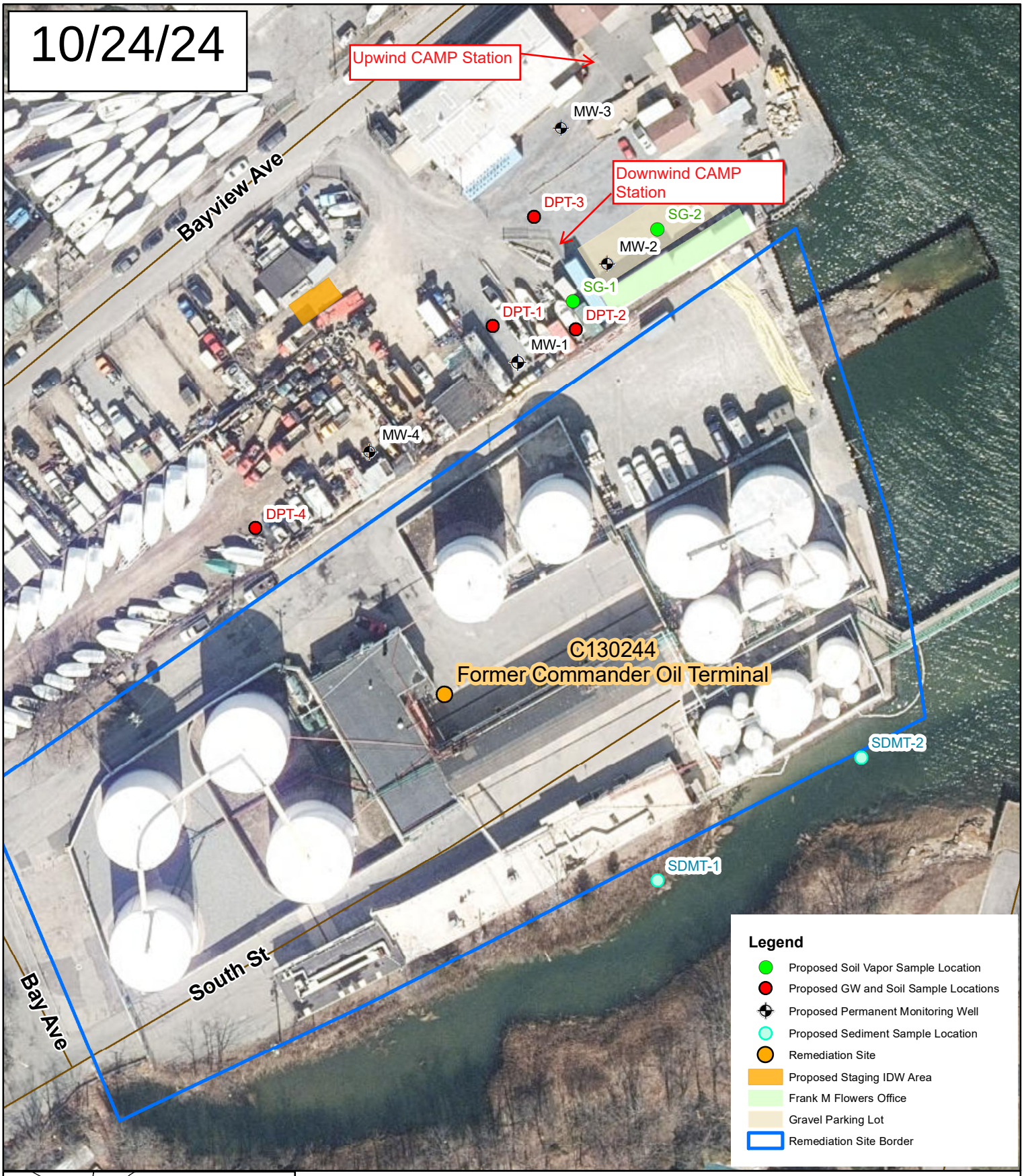
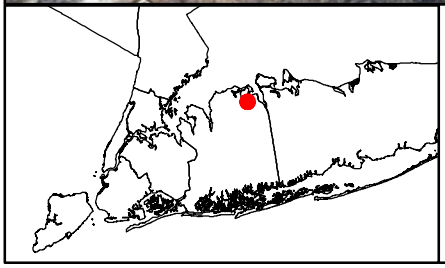
Proposed Sampling Locations
Former Commander Oil Terminal - Off-Site
Site No. C130244A

0 20 40 80 120 160
Feet

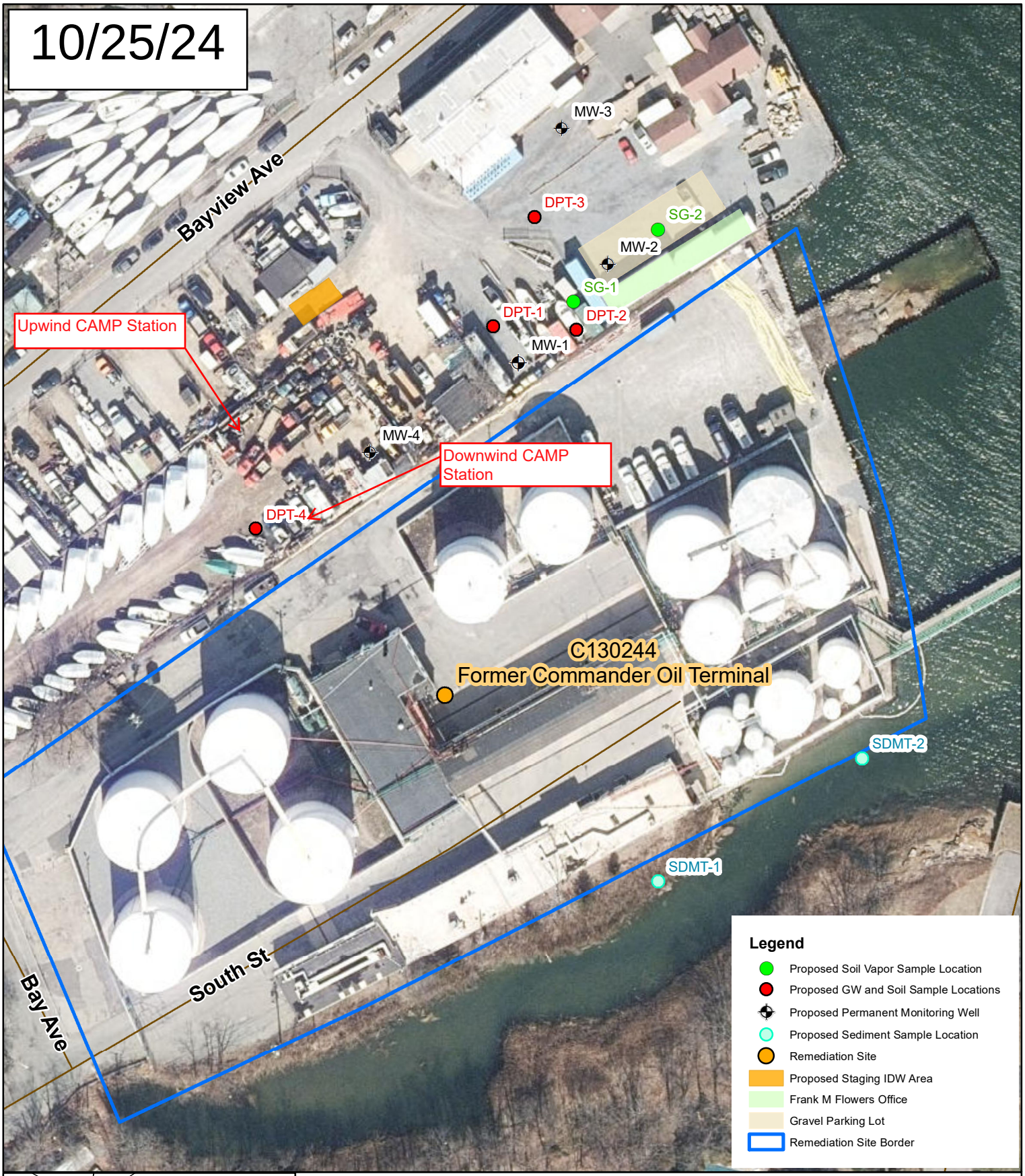


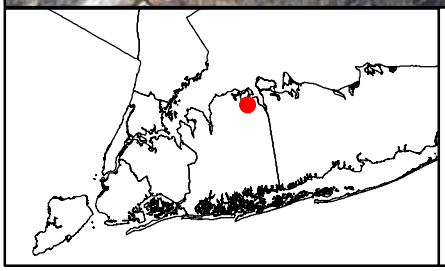


N

Proposed Sampling Locations
Former Commander Oil Terminal - Off-Site
Site No. C130244A

0 20 40 80 120 160
Feet

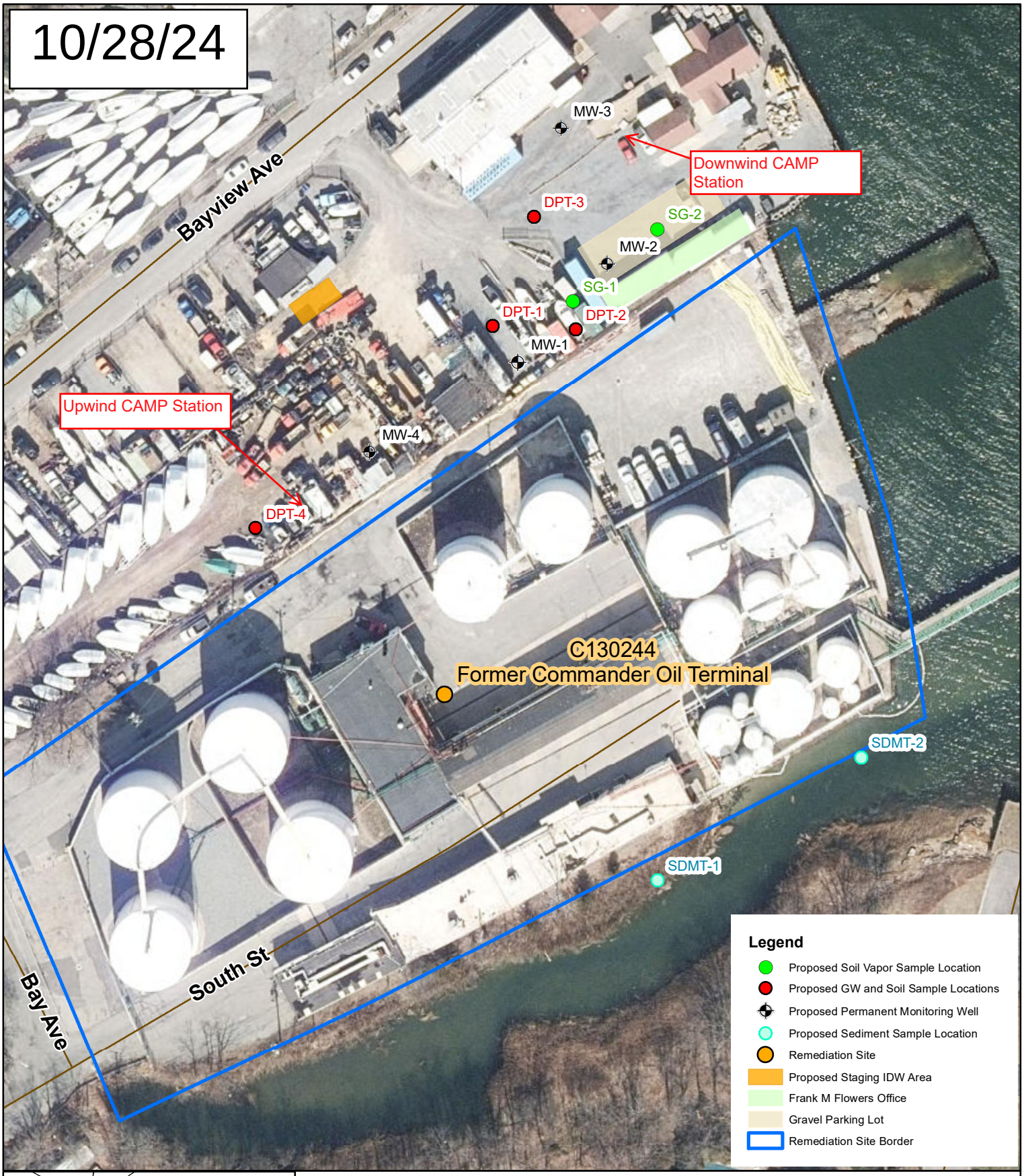


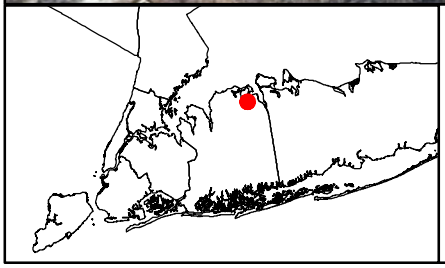


N

Proposed Sampling Locations
Former Commander Oil Terminal - Off-Site
Site No. C130244A

0 20 40 80 120 160
Feet





N

Proposed Sampling Locations
Former Commander Oil Terminal - Off-Site
Site No. C130244A

0 20 40 80 120 160
Feet

Upwind VOCs

==========

24/10/28 08:22

****

Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-601707
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/28/2024 8:22
End	10/28/2024 15:19
Sample Per	60
Number of	416

Sensor	PID(ppm)
Sensor SN	S023030649B3
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/28/2024 8:04
Peak	0.6
Min	0
Average	0.2

****

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/28/2024 8:23	0	0	0	0
2	10/28/2024 8:24	0	0	0	0

3	10/28/2024 8:25	0	0	0	0
4	10/28/2024 8:26	0	0	0	0
5	10/28/2024 8:27	0	0	0	0
6	10/28/2024 8:28	0	0	0	0
7	10/28/2024 8:29	0	0	0	0
8	10/28/2024 8:30	0	0	0	0
9	10/28/2024 8:31	0	0	0	0
10	10/28/2024 8:32	0	0	0	0
11	10/28/2024 8:33	0	0	0	0
12	10/28/2024 8:34	0	0	0	0
13	10/28/2024 8:35	0	0	0	0
14	10/28/2024 8:36	0	0	0	0
15	10/28/2024 8:37	0	0	0	0
16	10/28/2024 8:38	0	0	0	0
17	10/28/2024 8:39	0	0	0	0
18	10/28/2024 8:40	0	0	0	0
19	10/28/2024 8:41	0	0	0	0
20	10/28/2024 8:42	0	0	0	0
21	10/28/2024 8:43	0	0	0	0
22	10/28/2024 8:44	0	0	0	0
23	10/28/2024 8:45	0	0	0	0
24	10/28/2024 8:46	0	0	0	0
25	10/28/2024 8:47	0	0	0	0
26	10/28/2024 8:48	0	0	0	0
27	10/28/2024 8:49	0	0	0	0
28	10/28/2024 8:50	0	0	0	0
29	10/28/2024 8:51	0	0	0	0
30	10/28/2024 8:52	0	0	0	0
31	10/28/2024 8:53	0	0	0	0
32	10/28/2024 8:54	0	0	0	0
33	10/28/2024 8:55	0	0	0	0
34	10/28/2024 8:56	0	0	0	0
35	10/28/2024 8:57	0	0	0	0
36	10/28/2024 8:58	0	0	0	0
37	10/28/2024 8:59	0	0	0	0
38	10/28/2024 9:00	0	0	0	0
39	10/28/2024 9:01	0	0	0	0
40	10/28/2024 9:02	0	0	0	0
41	10/28/2024 9:03	0	0	0	0
42	10/28/2024 9:04	0	0	0	0
43	10/28/2024 9:05	0	0	0	0
44	10/28/2024 9:06	0	0	0	0
45	10/28/2024 9:07	0	0	0	0
46	10/28/2024 9:08	0	0	0	0

47	10/28/2024 9:09	0	0	0	0
48	10/28/2024 9:10	0	0.1	0.1	0
49	10/28/2024 9:11	0	0	0	0
50	10/28/2024 9:12	0	0	0	0
51	10/28/2024 9:13	0	0	0	0
52	10/28/2024 9:14	0	0.1	0.1	0.1
53	10/28/2024 9:15	0.1	0.1	0.1	0.1
54	10/28/2024 9:16	0.1	0.1	0.1	0.1
55	10/28/2024 9:17	0.1	0.1	0.1	0.1
56	10/28/2024 9:18	0.1	0.1	0.1	0.1
57	10/28/2024 9:19	0.1	0.1	0.1	0.1
58	10/28/2024 9:20	0.1	0.1	0.1	0.1
59	10/28/2024 9:21	0.1	0.1	0.1	0.1
60	10/28/2024 9:22	0.1	0.1	0.1	0.1
61	10/28/2024 9:23	0.1	0.1	0.1	0.1
62	10/28/2024 9:24	0.1	0.1	0.1	0.1
63	10/28/2024 9:25	0.1	0.1	0.1	0.1
64	10/28/2024 9:26	0.1	0.1	0.1	0.1
65	10/28/2024 9:27	0.1	0.1	0.1	0.1
66	10/28/2024 9:28	0.1	0.1	0.1	0.1
67	10/28/2024 9:29	0.1	0.1	0.1	0.1
68	10/28/2024 9:30	0.1	0.1	0.1	0.1
69	10/28/2024 9:31	0.1	0.1	0.1	0.1
70	10/28/2024 9:32	0.1	0.1	0.1	0.1
71	10/28/2024 9:33	0.1	0.1	0.1	0.1
72	10/28/2024 9:34	0.1	0.1	0.1	0.1
73	10/28/2024 9:35	0.1	0.1	0.1	0.1
74	10/28/2024 9:36	0.1	0.1	0.1	0.1
75	10/28/2024 9:37	0.1	0.1	0.1	0.1
76	10/28/2024 9:38	0.1	0.1	0.1	0.1
77	10/28/2024 9:39	0.1	0.1	0.1	0.1
78	10/28/2024 9:40	0.1	0.1	0.1	0.1
79	10/28/2024 9:41	0.1	0.1	0.1	0.1
80	10/28/2024 9:42	0.1	0.1	0.1	0.1
81	10/28/2024 9:43	0.1	0.1	0.1	0.1
82	10/28/2024 9:44	0.1	0.1	0.1	0.1
83	10/28/2024 9:45	0.1	0.1	0.1	0.1
84	10/28/2024 9:46	0.1	0.1	0.1	0.1
85	10/28/2024 9:47	0.1	0.1	0.1	0.1
86	10/28/2024 9:48	0.1	0.1	0.2	0.2
87	10/28/2024 9:49	0.1	0.2	0.2	0.2
88	10/28/2024 9:50	0.2	0.2	0.2	0.2
89	10/28/2024 9:51	0.2	0.2	0.2	0.2
90	10/28/2024 9:52	0.1	0.2	0.2	0.1

91	10/28/2024 9:53	0.1	0.1	0.2	0.2
92	10/28/2024 9:54	0.2	0.2	0.2	0.2
93	10/28/2024 9:55	0.2	0.2	0.2	0.2
94	10/28/2024 9:56	0.1	0.1	0.2	0.1
95	10/28/2024 9:57	0.1	0.1	0.2	0.2
96	10/28/2024 9:58	0.1	0.2	0.2	0.2
97	10/28/2024 9:59	0.1	0.2	0.2	0.2
98	10/28/2024 10:00	0.2	0.2	0.2	0.2
99	10/28/2024 10:01	0.2	0.2	0.2	0.2
100	10/28/2024 10:02	0.2	0.2	0.2	0.2
101	10/28/2024 10:03	0.2	0.2	0.2	0.2
102	10/28/2024 10:04	0.2	0.2	0.2	0.2
103	10/28/2024 10:05	0.2	0.2	0.2	0.2
104	10/28/2024 10:06	0.2	0.2	0.2	0.2
105	10/28/2024 10:07	0.2	0.2	0.2	0.2
106	10/28/2024 10:08	0.2	0.2	0.2	0.2
107	10/28/2024 10:09	0.2	0.2	0.2	0.2
108	10/28/2024 10:10	0.2	0.2	0.2	0.2
109	10/28/2024 10:11	0.2	0.2	0.2	0.2
110	10/28/2024 10:12	0.2	0.2	0.2	0.2
111	10/28/2024 10:13	0.2	0.2	0.2	0.2
112	10/28/2024 10:14	0.2	0.2	0.2	0.2
113	10/28/2024 10:15	0.2	0.2	0.2	0.2
114	10/28/2024 10:16	0.2	0.2	0.2	0.2
115	10/28/2024 10:17	0.2	0.2	0.2	0.2
116	10/28/2024 10:18	0.2	0.2	0.2	0.2
117	10/28/2024 10:19	0.2	0.2	0.2	0.2
118	10/28/2024 10:20	0.2	0.2	0.2	0.2
119	10/28/2024 10:21	0.2	0.2	0.2	0.2
120	10/28/2024 10:22	0.2	0.2	0.2	0.2
121	10/28/2024 10:23	0.2	0.2	0.2	0.2
122	10/28/2024 10:24	0.2	0.2	0.2	0.2
123	10/28/2024 10:25	0.2	0.2	0.2	0.2
124	10/28/2024 10:26	0.2	0.2	0.2	0.2
125	10/28/2024 10:27	0.2	0.2	0.2	0.2
126	10/28/2024 10:28	0.2	0.2	0.2	0.2
127	10/28/2024 10:29	0.2	0.2	0.2	0.2
128	10/28/2024 10:30	0.2	0.2	0.2	0.2
129	10/28/2024 10:31	0.2	0.2	0.2	0.2
130	10/28/2024 10:32	0.2	0.2	0.2	0.2
131	10/28/2024 10:33	0.2	0.2	0.2	0.2
132	10/28/2024 10:34	0.2	0.2	0.2	0.2
133	10/28/2024 10:35	0.2	0.2	0.2	0.2
134	10/28/2024 10:36	0.2	0.2	0.2	0.2

135	10/28/2024 10:37	0.2	0.2	0.2	0.2
136	10/28/2024 10:38	0.2	0.2	0.2	0.2
137	10/28/2024 10:39	0.2	0.2	0.2	0.2
138	10/28/2024 10:40	0.2	0.2	0.2	0.2
139	10/28/2024 10:41	0.2	0.2	0.2	0.2
140	10/28/2024 10:42	0.2	0.2	0.2	0.2
141	10/28/2024 10:43	0.2	0.2	0.2	0.2
142	10/28/2024 10:44	0.2	0.2	0.2	0.2
143	10/28/2024 10:45	0.2	0.2	0.2	0.2
144	10/28/2024 10:46	0.2	0.2	0.3	0.2
145	10/28/2024 10:47	0.2	0.2	0.2	0.2
146	10/28/2024 10:48	0.2	0.2	0.2	0.2
147	10/28/2024 10:49	0.2	0.2	0.2	0.2
148	10/28/2024 10:50	0.2	0.2	0.2	0.2
149	10/28/2024 10:51	0.2	0.2	0.2	0.2
150	10/28/2024 10:52	0.2	0.2	0.2	0.2
151	10/28/2024 10:53	0.2	0.2	0.2	0.2
152	10/28/2024 10:54	0.2	0.2	0.2	0.2
153	10/28/2024 10:55	0.2	0.2	0.3	0.2
154	10/28/2024 10:56	0.2	0.2	0.2	0.2
155	10/28/2024 10:57	0.2	0.2	0.2	0.2
156	10/28/2024 10:58	0.2	0.2	0.2	0.2
157	10/28/2024 10:59	0.2	0.2	0.2	0.2
158	10/28/2024 11:00	0.2	0.2	0.2	0.2
159	10/28/2024 11:01	0.2	0.2	0.2	0.2
160	10/28/2024 11:02	0.2	0.2	0.2	0.2
161	10/28/2024 11:03	0.2	0.2	0.2	0.2
162	10/28/2024 11:04	0.2	0.2	0.2	0.2
163	10/28/2024 11:05	0.2	0.2	0.2	0.2
164	10/28/2024 11:06	0.2	0.2	0.2	0.2
165	10/28/2024 11:07	0.2	0.2	0.2	0.2
166	10/28/2024 11:08	0.2	0.2	0.3	0.3
167	10/28/2024 11:09	0.2	0.3	0.3	0.2
168	10/28/2024 11:10	0.2	0.3	0.3	0.3
169	10/28/2024 11:11	0.2	0.2	0.3	0.3
170	10/28/2024 11:12	0.3	0.3	0.4	0.4
171	10/28/2024 11:13	0.3	0.4	0.5	0.4
172	10/28/2024 11:14	0.2	0.3	0.4	0.2
173	10/28/2024 11:15	0.2	0.3	0.4	0.4
174	10/28/2024 11:16	0.2	0.3	0.4	0.2
175	10/28/2024 11:17	0.2	0.3	0.4	0.4
176	10/28/2024 11:18	0.2	0.3	0.4	0.3
177	10/28/2024 11:19	0.2	0.2	0.3	0.2
178	10/28/2024 11:20	0.2	0.2	0.3	0.3

179	10/28/2024 11:21	0.2	0.3	0.3	0.2
180	10/28/2024 11:22	0.2	0.3	0.3	0.2
181	10/28/2024 11:23	0.2	0.3	0.4	0.3
182	10/28/2024 11:24	0.2	0.3	0.3	0.3
183	10/28/2024 11:25	0.2	0.2	0.3	0.2
184	10/28/2024 11:26	0.2	0.2	0.3	0.2
185	10/28/2024 11:27	0.2	0.2	0.3	0.3
186	10/28/2024 11:28	0.2	0.3	0.3	0.2
187	10/28/2024 11:29	0.2	0.2	0.3	0.2
188	10/28/2024 11:30	0.2	0.3	0.3	0.2
189	10/28/2024 11:31	0.2	0.2	0.3	0.2
190	10/28/2024 11:32	0.2	0.2	0.2	0.2
191	10/28/2024 11:33	0.2	0.2	0.3	0.3
192	10/28/2024 11:34	0.3	0.3	0.3	0.3
193	10/28/2024 11:35	0.2	0.2	0.3	0.2
194	10/28/2024 11:36	0.2	0.3	0.3	0.3
195	10/28/2024 11:37	0.2	0.3	0.3	0.3
196	10/28/2024 11:38	0.2	0.3	0.3	0.3
197	10/28/2024 11:39	0.3	0.3	0.4	0.3
198	10/28/2024 11:40	0.3	0.4	0.5	0.4
199	10/28/2024 11:41	0.2	0.3	0.4	0.2
200	10/28/2024 11:42	0.2	0.6	0.9	0.6
201	10/28/2024 11:43	0.3	0.5	0.7	0.3
202	10/28/2024 11:44	0.3	0.4	0.6	0.6
203	10/28/2024 11:45	0.4	0.5	0.6	0.5
204	10/28/2024 11:46	0.4	0.4	0.6	0.4
205	10/28/2024 11:47	0.3	0.4	0.4	0.4
206	10/28/2024 11:48	0.4	0.5	0.5	0.5
207	10/28/2024 11:49	0.4	0.5	0.7	0.5
208	10/28/2024 11:50	0.4	0.5	0.6	0.4
209	10/28/2024 11:51	0.4	0.5	0.6	0.4
210	10/28/2024 11:52	0.3	0.4	0.5	0.4
211	10/28/2024 11:53	0.3	0.4	0.4	0.3
212	10/28/2024 11:54	0.3	0.3	0.4	0.3
213	10/28/2024 11:55	0.3	0.3	0.3	0.3
214	10/28/2024 11:56	0.2	0.3	0.3	0.3
215	10/28/2024 11:57	0.2	0.3	0.3	0.2
216	10/28/2024 11:58	0.2	0.3	0.3	0.3
217	10/28/2024 11:59	0.2	0.3	0.3	0.3
218	10/28/2024 12:00	0.3	0.3	0.3	0.3
219	10/28/2024 12:01	0.2	0.3	0.3	0.3
220	10/28/2024 12:02	0.3	0.3	0.3	0.3
221	10/28/2024 12:03	0.3	0.3	0.3	0.3
222	10/28/2024 12:04	0.2	0.3	0.3	0.2

223	10/28/2024 12:05	0.2	0.2	0.2	0.2
224	10/28/2024 12:06	0.2	0.2	0.3	0.3
225	10/28/2024 12:07	0.2	0.3	0.3	0.3
226	10/28/2024 12:08	0.2	0.3	0.3	0.3
227	10/28/2024 12:09	0.2	0.3	0.3	0.2
228	10/28/2024 12:10	0.2	0.3	0.3	0.3
229	10/28/2024 12:11	0.2	0.3	0.3	0.3
230	10/28/2024 12:12	0.2	0.3	0.3	0.3
231	10/28/2024 12:13	0.2	0.3	0.3	0.3
232	10/28/2024 12:14	0.2	0.3	0.3	0.2
233	10/28/2024 12:15	0.2	0.3	0.3	0.3
234	10/28/2024 12:16	0.3	0.3	0.3	0.3
235	10/28/2024 12:17	0.2	0.3	0.3	0.3
236	10/28/2024 12:18	0.2	0.3	0.3	0.3
237	10/28/2024 12:19	0.2	0.3	0.3	0.3
238	10/28/2024 12:20	0.3	0.3	0.3	0.3
239	10/28/2024 12:21	0.3	0.3	0.3	0.3
240	10/28/2024 12:22	0.2	0.3	0.3	0.2
241	10/28/2024 12:23	0.2	0.2	0.3	0.2
242	10/28/2024 12:24	0.2	0.3	0.3	0.3
243	10/28/2024 12:25	0.3	0.3	0.3	0.3
244	10/28/2024 12:26	0.2	0.3	0.3	0.3
245	10/28/2024 12:27	0.2	0.3	0.3	0.3
246	10/28/2024 12:28	0.2	0.2	0.2	0.2
247	10/28/2024 12:29	0.2	0.2	0.3	0.3
248	10/28/2024 12:30	0.2	0.2	0.3	0.2
249	10/28/2024 12:31	0.2	0.2	0.3	0.2
250	10/28/2024 12:32	0.2	0.2	0.3	0.2
251	10/28/2024 12:33	0.2	0.2	0.3	0.3
252	10/28/2024 12:34	0.2	0.2	0.3	0.2
253	10/28/2024 12:35	0.2	0.2	0.2	0.2
254	10/28/2024 12:36	0.2	0.2	0.2	0.2
255	10/28/2024 12:37	0.2	0.3	0.3	0.2
256	10/28/2024 12:38	0.2	0.2	0.3	0.2
257	10/28/2024 12:39	0.2	0.2	0.3	0.2
258	10/28/2024 12:40	0.2	0.2	0.3	0.2
259	10/28/2024 12:41	0.2	0.2	0.2	0.2
260	10/28/2024 12:42	0.2	0.2	0.3	0.2
261	10/28/2024 12:43	0.2	0.2	0.2	0.2
262	10/28/2024 12:44	0.2	0.2	0.2	0.2
263	10/28/2024 12:45	0.2	0.2	0.2	0.2
264	10/28/2024 12:46	0.2	0.2	0.2	0.2
265	10/28/2024 12:47	0.2	0.2	0.2	0.2
266	10/28/2024 12:48	0.2	0.2	0.2	0.2

267	10/28/2024 12:49	0.2	0.2	0.2	0.2
268	10/28/2024 12:50	0.2	0.2	0.2	0.2
269	10/28/2024 12:51	0.2	0.2	0.2	0.2
270	10/28/2024 12:52	0.2	0.2	0.2	0.2
271	10/28/2024 12:53	0.2	0.2	0.2	0.2
272	10/28/2024 12:54	0.2	0.2	0.2	0.2
273	10/28/2024 12:55	0.2	0.2	0.2	0.2
274	10/28/2024 12:56	0.2	0.2	0.2	0.2
275	10/28/2024 12:57	0.2	0.2	0.2	0.2
276	10/28/2024 12:58	0.2	0.2	0.2	0.2
277	10/28/2024 12:59	0.2	0.2	0.2	0.2
278	10/28/2024 13:00	0.2	0.2	0.2	0.2
279	10/28/2024 13:01	0.2	0.2	0.2	0.2
280	10/28/2024 13:02	0.2	0.2	0.2	0.2
281	10/28/2024 13:03	0.2	0.2	0.2	0.2
282	10/28/2024 13:04	0.2	0.2	0.2	0.2
283	10/28/2024 13:05	0.2	0.2	0.2	0.2
284	10/28/2024 13:06	0.2	0.2	0.2	0.2
285	10/28/2024 13:07	0.2	0.2	0.2	0.2
286	10/28/2024 13:08	0.2	0.2	0.2	0.2
287	10/28/2024 13:09	0.2	0.2	0.2	0.2
288	10/28/2024 13:10	0.2	0.2	0.2	0.2
289	10/28/2024 13:11	0.2	0.2	0.2	0.2
290	10/28/2024 13:12	0.2	0.2	0.2	0.2
291	10/28/2024 13:13	0.2	0.2	0.2	0.2
292	10/28/2024 13:14	0.2	0.2	0.2	0.2
293	10/28/2024 13:15	0.2	0.2	0.2	0.2
294	10/28/2024 13:16	0.2	0.2	0.2	0.2
295	10/28/2024 13:17	0.2	0.2	0.2	0.2
296	10/28/2024 13:18	0.2	0.2	0.2	0.2
297	10/28/2024 13:19	0.2	0.2	0.2	0.2
298	10/28/2024 13:20	0.2	0.2	0.2	0.2
299	10/28/2024 13:21	0.2	0.2	0.2	0.2
300	10/28/2024 13:22	0.2	0.2	0.2	0.2
301	10/28/2024 13:23	0.2	0.2	0.2	0.2
302	10/28/2024 13:24	0.2	0.2	0.2	0.2
303	10/28/2024 13:25	0.2	0.2	0.2	0.2
304	10/28/2024 13:26	0.2	0.2	0.2	0.2
305	10/28/2024 13:27	0.2	0.2	0.2	0.2
306	10/28/2024 13:28	0.2	0.2	0.2	0.2
307	10/28/2024 13:29	0.2	0.2	0.2	0.2
308	10/28/2024 13:30	0.2	0.2	0.2	0.2
309	10/28/2024 13:31	0.2	0.2	0.2	0.2
310	10/28/2024 13:32	0.2	0.2	0.2	0.2

311	10/28/2024 13:33	0.2	0.2	0.2	0.2
312	10/28/2024 13:34	0.2	0.2	0.2	0.2
313	10/28/2024 13:35	0.2	0.2	0.2	0.2
314	10/28/2024 13:36	0.2	0.2	0.2	0.2
315	10/28/2024 13:37	0.2	0.2	0.2	0.2
316	10/28/2024 13:38	0.2	0.2	0.3	0.3
317	10/28/2024 13:39	0.2	0.2	0.3	0.2
318	10/28/2024 13:40	0.2	0.2	0.2	0.2
319	10/28/2024 13:41	0.2	0.3	0.3	0.3
320	10/28/2024 13:42	0.2	0.3	0.3	0.2
321	10/28/2024 13:43	0.2	0.2	0.3	0.2
322	10/28/2024 13:44	0.2	0.2	0.3	0.3
323	10/28/2024 13:45	0.2	0.2	0.3	0.2
324	10/28/2024 13:46	0.2	0.2	0.2	0.2
325	10/28/2024 13:47	0.2	0.2	0.2	0.2
326	10/28/2024 13:48	0.2	0.2	0.3	0.3
327	10/28/2024 13:49	0.2	0.3	0.3	0.3
328	10/28/2024 13:50	0.3	0.3	0.3	0.3
329	10/28/2024 13:51	0.2	0.3	0.3	0.3
330	10/28/2024 13:52	0.2	0.2	0.3	0.2
331	10/28/2024 13:53	0.2	0.2	0.3	0.2
332	10/28/2024 13:54	0.2	0.3	0.3	0.3
333	10/28/2024 13:55	0.3	0.3	0.3	0.3
334	10/28/2024 13:56	0.3	0.3	0.3	0.3
335	10/28/2024 13:57	0.2	0.3	0.3	0.3
336	10/28/2024 13:58	0.3	0.3	0.3	0.3
337	10/28/2024 13:59	0.2	0.3	0.3	0.2
338	10/28/2024 14:00	0.2	0.2	0.3	0.2
339	10/28/2024 14:01	0.2	0.2	0.2	0.2
340	10/28/2024 14:02	0.2	0.2	0.2	0.2
341	10/28/2024 14:03	0.2	0.2	0.2	0.2
342	10/28/2024 14:04	0.2	0.2	0.2	0.2
343	10/28/2024 14:05	0.2	0.2	0.2	0.2
344	10/28/2024 14:06	0.2	0.2	0.2	0.2
345	10/28/2024 14:07	0.2	0.2	0.2	0.2
346	10/28/2024 14:08	0.2	0.2	0.2	0.2
347	10/28/2024 14:09	0.2	0.2	0.2	0.2
348	10/28/2024 14:10	0.2	0.2	0.2	0.2
349	10/28/2024 14:11	0.2	0.2	0.2	0.2
350	10/28/2024 14:12	0.2	0.2	0.2	0.2
351	10/28/2024 14:13	0.2	0.2	0.2	0.2
352	10/28/2024 14:14	0.2	0.2	0.2	0.2
353	10/28/2024 14:15	0.2	0.2	0.3	0.2
354	10/28/2024 14:16	0.2	0.2	0.2	0.2

355	10/28/2024 14:17	0.2	0.2	0.2	0.2
356	10/28/2024 14:18	0.2	0.2	0.2	0.2
357	10/28/2024 14:19	0.2	0.2	0.2	0.2
358	10/28/2024 14:20	0.2	0.2	0.2	0.2
359	10/28/2024 14:21	0.2	0.2	0.2	0.2
360	10/28/2024 14:22	0.2	0.2	0.2	0.2
361	10/28/2024 14:23	0.2	0.2	0.2	0.2
362	10/28/2024 14:24	0.2	0.2	0.2	0.2
363	10/28/2024 14:25	0.2	0.2	0.2	0.2
364	10/28/2024 14:26	0.2	0.2	0.2	0.2
365	10/28/2024 14:27	0.2	0.2	0.2	0.2
366	10/28/2024 14:28	0.2	0.2	0.2	0.2
367	10/28/2024 14:29	0.2	0.2	0.2	0.2
368	10/28/2024 14:30	0.2	0.2	0.2	0.2
369	10/28/2024 14:31	0.2	0.2	0.2	0.2
370	10/28/2024 14:32	0.2	0.2	0.3	0.2
371	10/28/2024 14:33	0.2	0.2	0.3	0.3
372	10/28/2024 14:34	0.2	0.3	0.3	0.2
373	10/28/2024 14:35	0.2	0.2	0.3	0.2
374	10/28/2024 14:36	0.2	0.2	0.3	0.3
375	10/28/2024 14:37	0.2	0.2	0.3	0.2
376	10/28/2024 14:38	0.2	0.2	0.2	0.2
377	10/28/2024 14:39	0.2	0.2	0.3	0.3
378	10/28/2024 14:40	0.3	0.3	0.4	0.4
379	10/28/2024 14:41	0.3	0.4	0.6	0.3
380	10/28/2024 14:42	0.3	0.3	0.4	0.3
381	10/28/2024 14:43	0.3	0.4	0.4	0.3
382	10/28/2024 14:44	0.3	0.3	0.4	0.3
383	10/28/2024 14:45	0.2	0.2	0.3	0.3
384	10/28/2024 14:46	0.2	0.3	0.3	0.2
385	10/28/2024 14:47	0.2	0.3	0.4	0.4
386	10/28/2024 14:48	0.3	0.3	0.4	0.3
387	10/28/2024 14:49	0.3	0.4	0.7	0.4
388	10/28/2024 14:50	0.3	0.4	0.6	0.5
389	10/28/2024 14:51	0.3	0.4	0.5	0.4
390	10/28/2024 14:52	0.4	0.5	0.6	0.5
391	10/28/2024 14:53	0.3	0.4	0.5	0.3
392	10/28/2024 14:54	0.3	0.3	0.4	0.3
393	10/28/2024 14:55	0.3	0.3	0.3	0.3
394	10/28/2024 14:56	0.3	0.3	0.5	0.3
395	10/28/2024 14:57	0.3	0.3	0.4	0.3
396	10/28/2024 14:58	0.3	0.3	0.3	0.3
397	10/28/2024 14:59	0.3	0.3	0.4	0.4
398	10/28/2024 15:00	0.3	0.3	0.4	0.3

	399	10/28/2024 15:01	0.3	0.3	0.4	0.4
	400	10/28/2024 15:02	0.3	0.3	0.4	0.3
	401	10/28/2024 15:03	0.3	0.4	0.5	0.4
	402	10/28/2024 15:04	0.3	0.3	0.4	0.3
	403	10/28/2024 15:05	0.3	0.3	0.4	0.3
	404	10/28/2024 15:06	0.3	0.3	0.4	0.3
	405	10/28/2024 15:07	0.3	0.3	0.4	0.3
	406	10/28/2024 15:08	0.3	0.3	0.3	0.3
	407	10/28/2024 15:09	0.2	0.3	0.3	0.3
	408	10/28/2024 15:10	0.2	0.3	0.3	0.2
	409	10/28/2024 15:11	0.2	0.3	0.3	0.3
	410	10/28/2024 15:12	0.2	0.2	0.3	0.2
	411	10/28/2024 15:13	0.2	0.2	0.3	0.3
	412	10/28/2024 15:14	0.2	0.3	0.3	0.2
	413	10/28/2024 15:15	0.2	0.2	0.3	0.2
	414	10/28/2024 15:16	0.2	0.2	0.3	0.3
	415	10/28/2024 15:17	0.3	0.3	0.3	0.3
	416	10/28/2024 15:18	0.2	0.3	0.3	0.2
Peak			0.4	0.6	0.9	0.6
Min			0	0	0	0
Average			0.2	0.2	0.2	0.2

==========
24/10/21 11:37
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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-601707
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/21/2024 11:37
End	10/21/2024 16:58
Sample Per	60
Number of	320

Sensor	PID(ppm)
Sensor SN	S023030649B3
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measureme	Isobutylene
Calibration	10/18/2024 10:51
Peak	0
Min	0
Average	0

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/21/2024 11:38	0	0	0	0
2	10/21/2024 11:39	0	0	0	0
3	10/21/2024 11:40	0	0	0	0
4	10/21/2024 11:41	0	0	0	0
5	10/21/2024 11:42	0	0	0	0
6	10/21/2024 11:43	0	0	0	0
7	10/21/2024 11:44	0	0	0	0
8	10/21/2024 11:45	0	0	0	0
9	10/21/2024 11:46	0	0	0	0
10	10/21/2024 11:47	0	0	0	0
11	10/21/2024 11:48	0	0	0	0
12	10/21/2024 11:49	0	0	0	0
13	10/21/2024 11:50	0	0	0	0
14	10/21/2024 11:51	0	0	0	0
15	10/21/2024 11:52	0	0	0	0
16	10/21/2024 11:53	0	0	0	0
17	10/21/2024 11:54	0	0	0	0
18	10/21/2024 11:55	0	0	0	0
19	10/21/2024 11:56	0	0	0	0
20	10/21/2024 11:57	0	0	0	0
21	10/21/2024 11:58	0	0	0	0
22	10/21/2024 11:59	0	0	0	0
23	10/21/2024 12:00	0	0	0	0
24	10/21/2024 12:01	0	0	0	0
25	10/21/2024 12:02	0	0	0	0
26	10/21/2024 12:03	0	0	0	0
27	10/21/2024 12:04	0	0	0	0
28	10/21/2024 12:05	0	0	0	0
29	10/21/2024 12:06	0	0	0	0
30	10/21/2024 12:07	0	0	0	0
31	10/21/2024 12:08	0	0	0	0
32	10/21/2024 12:09	0	0	0	0
33	10/21/2024 12:10	0	0	0	0
34	10/21/2024 12:11	0	0	0	0
35	10/21/2024 12:12	0	0	0	0
36	10/21/2024 12:13	0	0	0	0
37	10/21/2024 12:14	0	0	0	0
38	10/21/2024 12:15	0	0	0	0
39	10/21/2024 12:16	0	0	0	0
40	10/21/2024 12:17	0	0	0	0

41	10/21/2024 12:18	0	0	0	0
42	10/21/2024 12:19	0	0	0	0
43	10/21/2024 12:20	0	0	0	0
44	10/21/2024 12:21	0	0	0	0
45	10/21/2024 12:22	0	0	0	0
46	10/21/2024 12:23	0	0	0	0
47	10/21/2024 12:24	0	0	0	0
48	10/21/2024 12:25	0	0	0	0
49	10/21/2024 12:26	0	0	0	0
50	10/21/2024 12:27	0	0	0	0
51	10/21/2024 12:28	0	0	0	0
52	10/21/2024 12:29	0	0	0	0
53	10/21/2024 12:30	0	0	0	0
54	10/21/2024 12:31	0	0	0	0
55	10/21/2024 12:32	0	0	0	0
56	10/21/2024 12:33	0	0	0	0
57	10/21/2024 12:34	0	0	0	0
58	10/21/2024 12:35	0	0	0	0
59	10/21/2024 12:36	0	0	0	0
60	10/21/2024 12:37	0	0	0	0
61	10/21/2024 12:38	0	0	0	0
62	10/21/2024 12:39	0	0	0	0
63	10/21/2024 12:40	0	0	0	0
64	10/21/2024 12:41	0	0	0	0
65	10/21/2024 12:42	0	0	0	0
66	10/21/2024 12:43	0	0	0	0
67	10/21/2024 12:44	0	0	0	0
68	10/21/2024 12:45	0	0	0	0
69	10/21/2024 12:46	0	0	0	0
70	10/21/2024 12:47	0	0	0	0
71	10/21/2024 12:48	0	0	0	0
72	10/21/2024 12:49	0	0	0	0
73	10/21/2024 12:50	0	0	0	0
74	10/21/2024 12:51	0	0	0	0
75	10/21/2024 12:52	0	0	0	0
76	10/21/2024 12:53	0	0	0	0
77	10/21/2024 12:54	0	0	0	0
78	10/21/2024 12:55	0	0	0	0
79	10/21/2024 12:56	0	0	0	0
80	10/21/2024 12:57	0	0	0	0
81	10/21/2024 12:58	0	0	0	0
82	10/21/2024 12:59	0	0	0	0
83	10/21/2024 13:00	0	0	0	0
84	10/21/2024 13:01	0	0	0	0

85	10/21/2024 13:02	0	0	0	0
86	10/21/2024 13:03	0	0	0	0
87	10/21/2024 13:04	0	0	0	0
88	10/21/2024 13:05	0	0	0	0
89	10/21/2024 13:06	0	0	0	0
90	10/21/2024 13:07	0	0	0	0
91	10/21/2024 13:08	0	0	0	0
92	10/21/2024 13:09	0	0	0	0
93	10/21/2024 13:10	0	0	0	0
94	10/21/2024 13:11	0	0	0	0
95	10/21/2024 13:12	0	0	0	0
96	10/21/2024 13:13	0	0	0	0
97	10/21/2024 13:14	0	0	0	0
98	10/21/2024 13:15	0	0	0	0
99	10/21/2024 13:16	0	0	0	0
100	10/21/2024 13:17	0	0	0	0
101	10/21/2024 13:18	0	0	0	0
102	10/21/2024 13:19	0	0	0	0
103	10/21/2024 13:20	0	0	0	0
104	10/21/2024 13:21	0	0	0	0
105	10/21/2024 13:22	0	0	0	0
106	10/21/2024 13:23	0	0	0	0
107	10/21/2024 13:24	0	0	0	0
108	10/21/2024 13:25	0	0	0	0
109	10/21/2024 13:26	0	0	0	0
110	10/21/2024 13:27	0	0	0	0
111	10/21/2024 13:28	0	0	0	0
112	10/21/2024 13:29	0	0	0	0
113	10/21/2024 13:30	0	0	0	0
114	10/21/2024 13:31	0	0	0	0
115	10/21/2024 13:32	0	0	0	0
116	10/21/2024 13:33	0	0	0	0
117	10/21/2024 13:34	0	0	0	0
118	10/21/2024 13:35	0	0	0	0
119	10/21/2024 13:36	0	0	0	0
120	10/21/2024 13:37	0	0	0	0
121	10/21/2024 13:38	0	0	0	0
122	10/21/2024 13:39	0	0	0	0
123	10/21/2024 13:40	0	0	0	0
124	10/21/2024 13:41	0	0	0	0
125	10/21/2024 13:42	0	0	0	0
126	10/21/2024 13:43	0	0	0	0
127	10/21/2024 13:44	0	0	0	0
128	10/21/2024 13:45	0	0	0	0

129	10/21/2024 13:46	0	0	0	0
130	10/21/2024 13:47	0	0	0	0
131	10/21/2024 13:48	0	0	0	0
132	10/21/2024 13:49	0	0	0	0
133	10/21/2024 13:50	0	0	0	0
134	10/21/2024 13:51	0	0	0	0
135	10/21/2024 13:52	0	0	0	0
136	10/21/2024 13:53	0	0	0	0
137	10/21/2024 13:54	0	0	0	0
138	10/21/2024 13:55	0	0	0	0
139	10/21/2024 13:56	0	0	0	0
140	10/21/2024 13:57	0	0	0	0
141	10/21/2024 13:58	0	0	0	0
142	10/21/2024 13:59	0	0	0	0
143	10/21/2024 14:00	0	0	0	0
144	10/21/2024 14:01	0	0	0	0
145	10/21/2024 14:02	0	0	0	0
146	10/21/2024 14:03	0	0	0	0
147	10/21/2024 14:04	0	0	0	0
148	10/21/2024 14:05	0	0	0	0
149	10/21/2024 14:06	0	0	0	0
150	10/21/2024 14:07	0	0	0	0
151	10/21/2024 14:08	0	0	0	0
152	10/21/2024 14:09	0	0	0	0
153	10/21/2024 14:10	0	0	0	0
154	10/21/2024 14:11	0	0	0	0
155	10/21/2024 14:12	0	0	0	0
156	10/21/2024 14:13	0	0	0	0
157	10/21/2024 14:14	0	0	0	0
158	10/21/2024 14:15	0	0	0	0
159	10/21/2024 14:16	0	0	0	0
160	10/21/2024 14:17	0	0	0	0
161	10/21/2024 14:18	0	0	0	0
162	10/21/2024 14:19	0	0	0	0
163	10/21/2024 14:20	0	0	0	0
164	10/21/2024 14:21	0	0	0	0
165	10/21/2024 14:22	0	0	0	0
166	10/21/2024 14:23	0	0	0	0
167	10/21/2024 14:24	0	0	0	0
168	10/21/2024 14:25	0	0	0	0
169	10/21/2024 14:26	0	0	0	0
170	10/21/2024 14:27	0	0	0	0
171	10/21/2024 14:28	0	0	0	0
172	10/21/2024 14:29	0	0	0	0

173	10/21/2024 14:30	0	0	0	0
174	10/21/2024 14:31	0	0	0	0
175	10/21/2024 14:32	0	0	0	0
176	10/21/2024 14:33	0	0	0	0
177	10/21/2024 14:34	0	0	0	0
178	10/21/2024 14:35	0	0	0	0
179	10/21/2024 14:36	0	0	0	0
180	10/21/2024 14:37	0	0	0	0
181	10/21/2024 14:38	0	0	0	0
182	10/21/2024 14:39	0	0	0	0
183	10/21/2024 14:40	0	0	0	0
184	10/21/2024 14:41	0	0	0	0
185	10/21/2024 14:42	0	0	0	0
186	10/21/2024 14:43	0	0	0	0
187	10/21/2024 14:44	0	0	0	0
188	10/21/2024 14:45	0	0	0	0
189	10/21/2024 14:46	0	0	0	0
190	10/21/2024 14:47	0	0	0	0
191	10/21/2024 14:48	0	0	0	0
192	10/21/2024 14:49	0	0	0	0
193	10/21/2024 14:50	0	0	0	0
194	10/21/2024 14:51	0	0	0	0
195	10/21/2024 14:52	0	0	0	0
196	10/21/2024 14:53	0	0	0	0
197	10/21/2024 14:54	0	0	0	0
198	10/21/2024 14:55	0	0	0	0
199	10/21/2024 14:56	0	0	0	0
200	10/21/2024 14:57	0	0	0	0
201	10/21/2024 14:58	0	0	0	0
202	10/21/2024 14:59	0	0	0	0
203	10/21/2024 15:00	0	0	0	0
204	10/21/2024 15:01	0	0	0	0
205	10/21/2024 15:02	0	0	0	0
206	10/21/2024 15:03	0	0	0	0
207	10/21/2024 15:04	0	0	0	0
208	10/21/2024 15:05	0	0	0	0
209	10/21/2024 15:06	0	0	0	0
210	10/21/2024 15:07	0	0	0	0
211	10/21/2024 15:08	0	0	0	0
212	10/21/2024 15:09	0	0	0	0
213	10/21/2024 15:10	0	0	0	0
214	10/21/2024 15:11	0	0	0	0
215	10/21/2024 15:12	0	0	0	0
216	10/21/2024 15:13	0	0	0	0

217	10/21/2024 15:14	0	0	0	0
218	10/21/2024 15:15	0	0	0	0
219	10/21/2024 15:16	0	0	0	0
220	10/21/2024 15:17	0	0	0	0
221	10/21/2024 15:18	0	0	0	0
222	10/21/2024 15:19	0	0	0	0
223	10/21/2024 15:20	0	0	0	0
224	10/21/2024 15:21	0	0	0	0
225	10/21/2024 15:22	0	0	0	0
226	10/21/2024 15:23	0	0	0	0
227	10/21/2024 15:24	0	0	0	0
228	10/21/2024 15:25	0	0	0	0
229	10/21/2024 15:26	0	0	0	0
230	10/21/2024 15:27	0	0	0	0
231	10/21/2024 15:28	0	0	0	0
232	10/21/2024 15:29	0	0	0	0
233	10/21/2024 15:30	0	0	0	0
234	10/21/2024 15:31	0	0	0	0
235	10/21/2024 15:32	0	0	0	0
236	10/21/2024 15:33	0	0	0	0
237	10/21/2024 15:34	0	0	0	0
238	10/21/2024 15:35	0	0	0	0
239	10/21/2024 15:36	0	0	0	0
240	10/21/2024 15:37	0	0	0	0
241	10/21/2024 15:38	0	0	0	0
242	10/21/2024 15:39	0	0	0	0
243	10/21/2024 15:40	0	0	0	0
244	10/21/2024 15:41	0	0	0	0
245	10/21/2024 15:42	0	0	0	0
246	10/21/2024 15:43	0	0	0	0
247	10/21/2024 15:44	0	0	0	0
248	10/21/2024 15:45	0	0	0	0
249	10/21/2024 15:46	0	0	0	0
250	10/21/2024 15:47	0	0	0	0
251	10/21/2024 15:48	0	0	0	0
252	10/21/2024 15:49	0	0	0	0
253	10/21/2024 15:50	0	0	0	0
254	10/21/2024 15:51	0	0	0	0
255	10/21/2024 15:52	0	0	0	0
256	10/21/2024 15:53	0	0	0	0
257	10/21/2024 15:54	0	0	0	0
258	10/21/2024 15:55	0	0	0	0
259	10/21/2024 15:56	0	0	0	0
260	10/21/2024 15:57	0	0	0	0

261	10/21/2024 15:58	0	0	0	0
262	10/21/2024 15:59	0	0	0	0
263	10/21/2024 16:00	0	0	0	0
264	10/21/2024 16:01	0	0	0	0
265	10/21/2024 16:02	0	0	0	0
266	10/21/2024 16:03	0	0	0	0
267	10/21/2024 16:04	0	0	0	0
268	10/21/2024 16:05	0	0	0	0
269	10/21/2024 16:06	0	0	0	0
270	10/21/2024 16:07	0	0	0	0
271	10/21/2024 16:08	0	0	0	0
272	10/21/2024 16:09	0	0	0	0
273	10/21/2024 16:10	0	0	0	0
274	10/21/2024 16:11	0	0	0	0
275	10/21/2024 16:12	0	0	0	0
276	10/21/2024 16:13	0	0	0	0
277	10/21/2024 16:14	0	0	0	0
278	10/21/2024 16:15	0	0	0	0
279	10/21/2024 16:16	0	0	0	0
280	10/21/2024 16:17	0	0	0	0
281	10/21/2024 16:18	0	0	0	0
282	10/21/2024 16:19	0	0	0	0
283	10/21/2024 16:20	0	0	0	0
284	10/21/2024 16:21	0	0	0	0
285	10/21/2024 16:22	0	0	0	0
286	10/21/2024 16:23	0	0	0	0
287	10/21/2024 16:24	0	0	0	0
288	10/21/2024 16:25	0	0	0	0
289	10/21/2024 16:26	0	0	0	0
290	10/21/2024 16:27	0	0	0	0
291	10/21/2024 16:28	0	0	0	0
292	10/21/2024 16:29	0	0	0	0
293	10/21/2024 16:30	0	0	0	0
294	10/21/2024 16:31	0	0	0	0
295	10/21/2024 16:32	0	0	0	0
296	10/21/2024 16:33	0	0	0	0
297	10/21/2024 16:34	0	0	0	0
298	10/21/2024 16:35	0	0	0	0
299	10/21/2024 16:36	0	0	0	0
300	10/21/2024 16:37	0	0	0	0
301	10/21/2024 16:38	0	0	0	0
302	10/21/2024 16:39	0	0	0	0
303	10/21/2024 16:40	0	0	0	0
304	10/21/2024 16:41	0	0	0	0

305	10/21/2024 16:42	0	0	0	0
306	10/21/2024 16:43	0	0	0	0
307	10/21/2024 16:44	0	0	0	0
308	10/21/2024 16:45	0	0	0	0
309	10/21/2024 16:46	0	0	0	0
310	10/21/2024 16:47	0	0	0	0
311	10/21/2024 16:48	0	0	0	0
312	10/21/2024 16:49	0	0	0	0
313	10/21/2024 16:50	0	0	0	0
314	10/21/2024 16:51	0	0	0	0
315	10/21/2024 16:52	0	0	0	0
316	10/21/2024 16:53	0	0	0	0
317	10/21/2024 16:54	0	0	0	0
318	10/21/2024 16:55	0	0	0	0
319	10/21/2024 16:56	0	0	0	0
320	10/21/2024 16:57	0	0	0	0
Peak		0	0	0	0
Min		0	0	0	0
Average		0	0	0	0

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24/10/22 08:28

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-601707
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/22/2024 8:28
End	10/22/2024 15:44
Sample Per	60
Number of	435

Sensor	PID(ppm)
Sensor SN	S023030649B3
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measureme	Isobutylene
Calibration	10/18/2024 10:51
Peak	0.3
Min	0
Average	0.2

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/22/2024 8:29	0	0	0	0
2	10/22/2024 8:30	0	0	0	0

3	10/22/2024 8:31	0	0	0	0
4	10/22/2024 8:32	0	0	0	0
5	10/22/2024 8:33	0	0	0	0
6	10/22/2024 8:34	0	0	0	0
7	10/22/2024 8:35	0	0	0	0
8	10/22/2024 8:36	0	0	0	0
9	10/22/2024 8:37	0	0	0	0
10	10/22/2024 8:38	0	0	0	0
11	10/22/2024 8:39	0	0	0	0
12	10/22/2024 8:40	0	0	0	0
13	10/22/2024 8:41	0	0	0	0
14	10/22/2024 8:42	0	0	0	0
15	10/22/2024 8:43	0	0	0	0
16	10/22/2024 8:44	0	0	0	0
17	10/22/2024 8:45	0	0	0	0
18	10/22/2024 8:46	0	0	0	0
19	10/22/2024 8:47	0	0	0	0
20	10/22/2024 8:48	0	0	0	0
21	10/22/2024 8:49	0	0	0	0
22	10/22/2024 8:50	0	0	0	0
23	10/22/2024 8:51	0	0	0	0
24	10/22/2024 8:52	0	0	0	0
25	10/22/2024 8:53	0	0	0	0
26	10/22/2024 8:54	0	0	0	0
27	10/22/2024 8:55	0	0	0	0
28	10/22/2024 8:56	0	0	0	0
29	10/22/2024 8:57	0	0	0	0
30	10/22/2024 8:58	0	0	0	0
31	10/22/2024 8:59	0	0	0	0
32	10/22/2024 9:00	0	0	0	0
33	10/22/2024 9:01	0	0	0	0
34	10/22/2024 9:02	0	0	0	0
35	10/22/2024 9:03	0	0	0	0
36	10/22/2024 9:04	0	0	0	0
37	10/22/2024 9:05	0	0	0	0
38	10/22/2024 9:06	0	0	0	0
39	10/22/2024 9:07	0	0	0	0
40	10/22/2024 9:08	0	0	0	0
41	10/22/2024 9:09	0	0	0	0
42	10/22/2024 9:10	0	0	0	0
43	10/22/2024 9:11	0	0	0	0
44	10/22/2024 9:12	0	0	0	0
45	10/22/2024 9:13	0	0	0	0
46	10/22/2024 9:14	0	0	0	0

47	10/22/2024 9:15	0	0	0	0
48	10/22/2024 9:16	0	0	0	0
49	10/22/2024 9:17	0	0	0	0
50	10/22/2024 9:18	0	0	0	0
51	10/22/2024 9:19	0	0	0	0
52	10/22/2024 9:20	0	0	0	0
53	10/22/2024 9:21	0	0	0	0
54	10/22/2024 9:22	0	0	0	0
55	10/22/2024 9:23	0	0	0	0
56	10/22/2024 9:24	0	0	0	0
57	10/22/2024 9:25	0	0.1	0.1	0.1
58	10/22/2024 9:26	0.1	0.1	0.1	0.1
59	10/22/2024 9:27	0.1	0.1	0.1	0.1
60	10/22/2024 9:28	0.1	0.1	0.1	0.1
61	10/22/2024 9:29	0.1	0.1	0.2	0.2
62	10/22/2024 9:30	0.2	0.2	0.2	0.2
63	10/22/2024 9:31	0.2	0.2	0.2	0.2
64	10/22/2024 9:32	0.2	0.2	0.2	0.2
65	10/22/2024 9:33	0.1	0.2	0.2	0.1
66	10/22/2024 9:34	0.1	0.1	0.2	0.1
67	10/22/2024 9:35	0.1	0.1	0.1	0.1
68	10/22/2024 9:36	0.1	0.1	0.1	0.1
69	10/22/2024 9:37	0.1	0.1	0.1	0.1
70	10/22/2024 9:38	0.1	0.1	0.1	0.1
71	10/22/2024 9:39	0.1	0.1	0.1	0.1
72	10/22/2024 9:40	0.1	0.1	0.1	0.1
73	10/22/2024 9:41	0.1	0.1	0.1	0.1
74	10/22/2024 9:42	0	0.1	0.1	0.1
75	10/22/2024 9:43	0	0.1	0.1	0.1
76	10/22/2024 9:44	0.1	0.1	0.1	0.1
77	10/22/2024 9:45	0.1	0.1	0.1	0.1
78	10/22/2024 9:46	0	0.1	0.1	0.1
79	10/22/2024 9:47	0.1	0.1	0.1	0.1
80	10/22/2024 9:48	0.1	0.1	0.1	0.1
81	10/22/2024 9:49	0.1	0.1	0.1	0.1
82	10/22/2024 9:50	0.1	0.1	0.1	0.1
83	10/22/2024 9:51	0.1	0.1	0.1	0.1
84	10/22/2024 9:52	0.1	0.1	0.1	0.1
85	10/22/2024 9:53	0.1	0.1	0.1	0.1
86	10/22/2024 9:54	0.1	0.1	0.1	0.1
87	10/22/2024 9:55	0.1	0.1	0.1	0.1
88	10/22/2024 9:56	0.1	0.1	0.1	0.1
89	10/22/2024 9:57	0.1	0.1	0.1	0.1
90	10/22/2024 9:58	0.1	0.1	0.1	0.1

91	10/22/2024 9:59	0.1	0.1	0.1	0.1
92	10/22/2024 10:00	0.1	0.1	0.1	0.1
93	10/22/2024 10:01	0.1	0.1	0.1	0.1
94	10/22/2024 10:02	0.1	0.1	0.1	0.1
95	10/22/2024 10:03	0	0.1	0.1	0.1
96	10/22/2024 10:04	0.1	0.1	0.1	0.1
97	10/22/2024 10:05	0.1	0.1	0.1	0.1
98	10/22/2024 10:06	0.1	0.1	0.1	0.1
99	10/22/2024 10:07	0.1	0.1	0.1	0.1
100	10/22/2024 10:08	0.1	0.1	0.1	0.1
101	10/22/2024 10:09	0.1	0.1	0.1	0.1
102	10/22/2024 10:10	0.1	0.1	0.1	0.1
103	10/22/2024 10:11	0.1	0.1	0.1	0.1
104	10/22/2024 10:12	0.1	0.1	0.1	0.1
105	10/22/2024 10:13	0.1	0.1	0.1	0.1
106	10/22/2024 10:14	0.1	0.1	0.1	0.1
107	10/22/2024 10:15	0.1	0.1	0.1	0.1
108	10/22/2024 10:16	0.1	0.1	0.1	0.1
109	10/22/2024 10:17	0.1	0.1	0.1	0.1
110	10/22/2024 10:18	0.1	0.1	0.1	0.1
111	10/22/2024 10:19	0.1	0.1	0.1	0.1
112	10/22/2024 10:20	0.1	0.1	0.1	0.1
113	10/22/2024 10:21	0.1	0.1	0.1	0.1
114	10/22/2024 10:22	0.1	0.1	0.1	0.1
115	10/22/2024 10:23	0.1	0.1	0.1	0.1
116	10/22/2024 10:24	0.1	0.1	0.1	0.1
117	10/22/2024 10:25	0.1	0.1	0.1	0.1
118	10/22/2024 10:26	0.1	0.1	0.1	0.1
119	10/22/2024 10:27	0.1	0.1	0.1	0.1
120	10/22/2024 10:28	0.1	0.1	0.1	0.1
121	10/22/2024 10:29	0.1	0.1	0.1	0.1
122	10/22/2024 10:30	0.1	0.1	0.1	0.1
123	10/22/2024 10:31	0.1	0.1	0.1	0.1
124	10/22/2024 10:32	0.1	0.1	0.1	0.1
125	10/22/2024 10:33	0.1	0.1	0.1	0.1
126	10/22/2024 10:34	0.1	0.1	0.2	0.1
127	10/22/2024 10:35	0.1	0.1	0.1	0.1
128	10/22/2024 10:36	0.1	0.1	0.1	0.1
129	10/22/2024 10:37	0.1	0.1	0.1	0.1
130	10/22/2024 10:38	0.1	0.1	0.1	0.1
131	10/22/2024 10:39	0.1	0.1	0.1	0.1
132	10/22/2024 10:40	0.1	0.1	0.1	0.1
133	10/22/2024 10:41	0.1	0.1	0.1	0.1
134	10/22/2024 10:42	0.1	0.1	0.1	0.1

135	10/22/2024 10:43	0.1	0.1	0.1	0.1
136	10/22/2024 10:44	0.1	0.1	0.1	0.1
137	10/22/2024 10:45	0.1	0.1	0.1	0.1
138	10/22/2024 10:46	0.1	0.1	0.2	0.1
139	10/22/2024 10:47	0.1	0.1	0.2	0.1
140	10/22/2024 10:48	0.1	0.1	0.1	0.1
141	10/22/2024 10:49	0.1	0.1	0.1	0.1
142	10/22/2024 10:50	0.1	0.1	0.1	0.1
143	10/22/2024 10:51	0.1	0.1	0.1	0.1
144	10/22/2024 10:52	0.1	0.1	0.1	0.1
145	10/22/2024 10:53	0.1	0.1	0.1	0.1
146	10/22/2024 10:54	0.1	0.1	0.1	0.1
147	10/22/2024 10:55	0.1	0.1	0.1	0.1
148	10/22/2024 10:56	0.1	0.1	0.1	0.1
149	10/22/2024 10:57	0.1	0.1	0.1	0.1
150	10/22/2024 10:58	0.1	0.1	0.1	0.1
151	10/22/2024 10:59	0.1	0.2	0.2	0.2
152	10/22/2024 11:00	0.1	0.2	0.2	0.1
153	10/22/2024 11:01	0.1	0.2	0.2	0.2
154	10/22/2024 11:02	0.2	0.2	0.2	0.2
155	10/22/2024 11:03	0.2	0.2	0.2	0.2
156	10/22/2024 11:04	0.2	0.2	0.2	0.2
157	10/22/2024 11:05	0.1	0.2	0.2	0.1
158	10/22/2024 11:06	0.1	0.1	0.2	0.1
159	10/22/2024 11:07	0.1	0.1	0.2	0.2
160	10/22/2024 11:08	0.1	0.1	0.2	0.2
161	10/22/2024 11:09	0.1	0.1	0.2	0.1
162	10/22/2024 11:10	0.1	0.1	0.2	0.2
163	10/22/2024 11:11	0.1	0.1	0.2	0.1
164	10/22/2024 11:12	0.1	0.1	0.2	0.2
165	10/22/2024 11:13	0.1	0.1	0.2	0.1
166	10/22/2024 11:14	0.1	0.1	0.2	0.2
167	10/22/2024 11:15	0.2	0.2	0.2	0.2
168	10/22/2024 11:16	0.1	0.2	0.2	0.2
169	10/22/2024 11:17	0.1	0.2	0.2	0.1
170	10/22/2024 11:18	0.1	0.2	0.2	0.2
171	10/22/2024 11:19	0.1	0.2	0.2	0.2
172	10/22/2024 11:20	0.1	0.2	0.2	0.1
173	10/22/2024 11:21	0.1	0.1	0.2	0.1
174	10/22/2024 11:22	0.1	0.1	0.2	0.1
175	10/22/2024 11:23	0.1	0.1	0.2	0.1
176	10/22/2024 11:24	0.1	0.2	0.2	0.2
177	10/22/2024 11:25	0.1	0.1	0.2	0.1
178	10/22/2024 11:26	0.1	0.1	0.2	0.2

179	10/22/2024 11:27	0.1	0.1	0.2	0.1
180	10/22/2024 11:28	0.1	0.1	0.1	0.1
181	10/22/2024 11:29	0.1	0.1	0.1	0.1
182	10/22/2024 11:30	0.1	0.1	0.1	0.1
183	10/22/2024 11:31	0.1	0.1	0.1	0.1
184	10/22/2024 11:32	0.1	0.1	0.2	0.1
185	10/22/2024 11:33	0.1	0.1	0.1	0.1
186	10/22/2024 11:34	0.1	0.1	0.1	0.1
187	10/22/2024 11:35	0.1	0.1	0.1	0.1
188	10/22/2024 11:36	0.1	0.1	0.2	0.1
189	10/22/2024 11:37	0.1	0.1	0.2	0.1
190	10/22/2024 11:38	0.1	0.1	0.1	0.1
191	10/22/2024 11:39	0.1	0.1	0.1	0.1
192	10/22/2024 11:40	0.1	0.1	0.2	0.1
193	10/22/2024 11:41	0.1	0.1	0.2	0.1
194	10/22/2024 11:42	0.1	0.1	0.1	0.1
195	10/22/2024 11:43	0.1	0.1	0.2	0.2
196	10/22/2024 11:44	0.1	0.1	0.2	0.1
197	10/22/2024 11:45	0.1	0.1	0.2	0.1
198	10/22/2024 11:46	0.1	0.1	0.1	0.1
199	10/22/2024 11:47	0.1	0.1	0.2	0.1
200	10/22/2024 11:48	0.1	0.1	0.2	0.2
201	10/22/2024 11:49	0.1	0.2	0.2	0.2
202	10/22/2024 11:50	0.1	0.2	0.2	0.2
203	10/22/2024 11:51	0.2	0.2	0.2	0.2
204	10/22/2024 11:52	0.1	0.2	0.2	0.1
205	10/22/2024 11:53	0.2	0.2	0.2	0.2
206	10/22/2024 11:54	0.2	0.2	0.2	0.2
207	10/22/2024 11:55	0.2	0.2	0.2	0.2
208	10/22/2024 11:56	0.2	0.2	0.2	0.2
209	10/22/2024 11:57	0.2	0.2	0.2	0.2
210	10/22/2024 11:58	0.2	0.2	0.2	0.2
211	10/22/2024 11:59	0.1	0.2	0.2	0.2
212	10/22/2024 12:00	0.2	0.2	0.2	0.2
213	10/22/2024 12:01	0.2	0.2	0.2	0.2
214	10/22/2024 12:02	0.2	0.2	0.2	0.2
215	10/22/2024 12:03	0.2	0.2	0.2	0.2
216	10/22/2024 12:04	0.2	0.2	0.2	0.2
217	10/22/2024 12:05	0.2	0.2	0.2	0.2
218	10/22/2024 12:06	0.2	0.2	0.2	0.2
219	10/22/2024 12:07	0.2	0.2	0.2	0.2
220	10/22/2024 12:08	0.2	0.2	0.2	0.2
221	10/22/2024 12:09	0.2	0.2	0.2	0.2
222	10/22/2024 12:10	0.2	0.2	0.2	0.2

223	10/22/2024 12:11	0.2	0.2	0.2	0.2
224	10/22/2024 12:12	0.2	0.2	0.2	0.2
225	10/22/2024 12:13	0.2	0.2	0.2	0.2
226	10/22/2024 12:14	0.2	0.2	0.2	0.2
227	10/22/2024 12:15	0.2	0.3	0.3	0.2
228	10/22/2024 12:16	0.2	0.2	0.2	0.2
229	10/22/2024 12:17	0.2	0.2	0.3	0.2
230	10/22/2024 12:18	0.2	0.2	0.3	0.2
231	10/22/2024 12:19	0.2	0.2	0.3	0.3
232	10/22/2024 12:20	0.2	0.3	0.3	0.2
233	10/22/2024 12:21	0.2	0.3	0.3	0.3
234	10/22/2024 12:22	0.2	0.3	0.3	0.3
235	10/22/2024 12:23	0.2	0.3	0.3	0.2
236	10/22/2024 12:24	0.2	0.3	0.3	0.3
237	10/22/2024 12:25	0.3	0.3	0.3	0.3
238	10/22/2024 12:26	0.3	0.3	0.3	0.3
239	10/22/2024 12:27	0.3	0.3	0.3	0.3
240	10/22/2024 12:28	0.3	0.3	0.3	0.3
241	10/22/2024 12:29	0.3	0.3	0.3	0.3
242	10/22/2024 12:30	0.3	0.3	0.3	0.3
243	10/22/2024 12:31	0.3	0.3	0.3	0.3
244	10/22/2024 12:32	0.3	0.3	0.3	0.3
245	10/22/2024 12:33	0.3	0.3	0.3	0.3
246	10/22/2024 12:34	0.3	0.3	0.3	0.3
247	10/22/2024 12:35	0.3	0.3	0.3	0.3
248	10/22/2024 12:36	0.3	0.3	0.3	0.3
249	10/22/2024 12:37	0.3	0.3	0.3	0.3
250	10/22/2024 12:38	0.3	0.3	0.3	0.3
251	10/22/2024 12:39	0.3	0.3	0.3	0.3
252	10/22/2024 12:40	0.3	0.3	0.3	0.3
253	10/22/2024 12:41	0.3	0.3	0.3	0.3
254	10/22/2024 12:42	0.3	0.3	0.3	0.3
255	10/22/2024 12:43	0.3	0.3	0.3	0.3
256	10/22/2024 12:44	0.3	0.3	0.3	0.3
257	10/22/2024 12:45	0.3	0.3	0.3	0.3
258	10/22/2024 12:46	0.3	0.3	0.3	0.3
259	10/22/2024 12:47	0.3	0.3	0.3	0.3
260	10/22/2024 12:48	0.3	0.3	0.3	0.3
261	10/22/2024 12:49	0.3	0.3	0.3	0.3
262	10/22/2024 12:50	0.3	0.3	0.3	0.3
263	10/22/2024 12:51	0.3	0.3	0.3	0.3
264	10/22/2024 12:52	0.3	0.3	0.3	0.3
265	10/22/2024 12:53	0.3	0.3	0.3	0.3
266	10/22/2024 12:54	0.3	0.3	0.3	0.3

267	10/22/2024 12:55	0.3	0.3	0.3	0.3
268	10/22/2024 12:56	0.3	0.3	0.3	0.3
269	10/22/2024 12:57	0.3	0.3	0.3	0.3
270	10/22/2024 12:58	0.3	0.3	0.3	0.3
271	10/22/2024 12:59	0.3	0.3	0.3	0.3
272	10/22/2024 13:00	0.3	0.3	0.3	0.3
273	10/22/2024 13:01	0.3	0.3	0.3	0.3
274	10/22/2024 13:02	0.3	0.3	0.3	0.3
275	10/22/2024 13:03	0.3	0.3	0.3	0.3
276	10/22/2024 13:04	0.3	0.3	0.3	0.3
277	10/22/2024 13:05	0.3	0.3	0.3	0.3
278	10/22/2024 13:06	0.3	0.3	0.3	0.3
279	10/22/2024 13:07	0.3	0.3	0.3	0.3
280	10/22/2024 13:08	0.3	0.3	0.3	0.3
281	10/22/2024 13:09	0.3	0.3	0.3	0.3
282	10/22/2024 13:10	0.3	0.3	0.3	0.3
283	10/22/2024 13:11	0.3	0.3	0.3	0.3
284	10/22/2024 13:12	0.3	0.3	0.3	0.3
285	10/22/2024 13:13	0.3	0.3	0.3	0.3
286	10/22/2024 13:14	0.3	0.3	0.3	0.3
287	10/22/2024 13:15	0.3	0.3	0.3	0.3
288	10/22/2024 13:16	0.3	0.3	0.3	0.3
289	10/22/2024 13:17	0.2	0.3	0.3	0.2
290	10/22/2024 13:18	0.2	0.2	0.3	0.3
291	10/22/2024 13:19	0.2	0.2	0.3	0.3
292	10/22/2024 13:20	0.2	0.3	0.3	0.2
293	10/22/2024 13:21	0.2	0.2	0.2	0.2
294	10/22/2024 13:22	0.2	0.2	0.2	0.2
295	10/22/2024 13:23	0.2	0.2	0.2	0.2
296	10/22/2024 13:24	0.2	0.2	0.2	0.2
297	10/22/2024 13:25	0.2	0.2	0.2	0.2
298	10/22/2024 13:26	0.2	0.2	0.2	0.2
299	10/22/2024 13:27	0.2	0.2	0.2	0.2
300	10/22/2024 13:28	0.2	0.2	0.2	0.2
301	10/22/2024 13:29	0.2	0.2	0.2	0.2
302	10/22/2024 13:30	0.2	0.2	0.2	0.2
303	10/22/2024 13:31	0.2	0.2	0.2	0.2
304	10/22/2024 13:32	0.2	0.2	0.2	0.2
305	10/22/2024 13:33	0.2	0.2	0.2	0.2
306	10/22/2024 13:34	0.2	0.2	0.2	0.2
307	10/22/2024 13:35	0.2	0.2	0.2	0.2
308	10/22/2024 13:36	0.2	0.2	0.2	0.2
309	10/22/2024 13:37	0.2	0.2	0.2	0.2
310	10/22/2024 13:38	0.2	0.2	0.2	0.2

311	10/22/2024 13:39	0.2	0.2	0.2	0.2
312	10/22/2024 13:40	0.2	0.2	0.2	0.2
313	10/22/2024 13:41	0.2	0.2	0.2	0.2
314	10/22/2024 13:42	0.2	0.2	0.2	0.2
315	10/22/2024 13:43	0.2	0.2	0.2	0.2
316	10/22/2024 13:44	0.2	0.2	0.2	0.2
317	10/22/2024 13:45	0.2	0.2	0.2	0.2
318	10/22/2024 13:46	0.2	0.2	0.2	0.2
319	10/22/2024 13:47	0.2	0.2	0.2	0.2
320	10/22/2024 13:48	0.2	0.2	0.2	0.2
321	10/22/2024 13:49	0.2	0.2	0.2	0.2
322	10/22/2024 13:50	0.2	0.2	0.2	0.2
323	10/22/2024 13:51	0.2	0.2	0.2	0.2
324	10/22/2024 13:52	0.2	0.2	0.2	0.2
325	10/22/2024 13:53	0.2	0.2	0.2	0.2
326	10/22/2024 13:54	0.2	0.2	0.2	0.2
327	10/22/2024 13:55	0.2	0.2	0.2	0.2
328	10/22/2024 13:56	0.2	0.2	0.2	0.2
329	10/22/2024 13:57	0.2	0.2	0.2	0.2
330	10/22/2024 13:58	0.2	0.2	0.2	0.2
331	10/22/2024 13:59	0.2	0.2	0.2	0.2
332	10/22/2024 14:00	0.2	0.2	0.2	0.2
333	10/22/2024 14:01	0.2	0.2	0.2	0.2
334	10/22/2024 14:02	0.2	0.2	0.2	0.2
335	10/22/2024 14:03	0.2	0.2	0.2	0.2
336	10/22/2024 14:04	0.2	0.2	0.2	0.2
337	10/22/2024 14:05	0.2	0.2	0.2	0.2
338	10/22/2024 14:06	0.2	0.2	0.2	0.2
339	10/22/2024 14:07	0.2	0.2	0.2	0.2
340	10/22/2024 14:08	0.2	0.2	0.2	0.2
341	10/22/2024 14:09	0.2	0.2	0.2	0.2
342	10/22/2024 14:10	0.2	0.2	0.2	0.2
343	10/22/2024 14:11	0.2	0.2	0.2	0.2
344	10/22/2024 14:12	0.2	0.2	0.2	0.2
345	10/22/2024 14:13	0.2	0.2	0.2	0.2
346	10/22/2024 14:14	0.2	0.2	0.2	0.2
347	10/22/2024 14:15	0.2	0.2	0.2	0.2
348	10/22/2024 14:16	0.2	0.2	0.2	0.2
349	10/22/2024 14:17	0.2	0.2	0.2	0.2
350	10/22/2024 14:18	0.2	0.2	0.2	0.2
351	10/22/2024 14:19	0.2	0.2	0.2	0.2
352	10/22/2024 14:20	0.2	0.2	0.2	0.2
353	10/22/2024 14:21	0.2	0.2	0.2	0.2
354	10/22/2024 14:22	0.2	0.2	0.2	0.2

355	10/22/2024 14:23	0.2	0.2	0.2	0.2
356	10/22/2024 14:24	0.2	0.2	0.2	0.2
357	10/22/2024 14:25	0.2	0.2	0.2	0.2
358	10/22/2024 14:26	0.2	0.2	0.2	0.2
359	10/22/2024 14:27	0.2	0.2	0.2	0.2
360	10/22/2024 14:28	0.2	0.2	0.2	0.2
361	10/22/2024 14:29	0.2	0.2	0.2	0.2
362	10/22/2024 14:30	0.2	0.2	0.2	0.2
363	10/22/2024 14:31	0.2	0.2	0.2	0.2
364	10/22/2024 14:32	0.2	0.2	0.2	0.2
365	10/22/2024 14:33	0.2	0.2	0.2	0.2
366	10/22/2024 14:34	0.2	0.2	0.2	0.2
367	10/22/2024 14:35	0.2	0.2	0.2	0.2
368	10/22/2024 14:36	0.2	0.2	0.2	0.2
369	10/22/2024 14:37	0.2	0.2	0.2	0.2
370	10/22/2024 14:38	0.2	0.2	0.2	0.2
371	10/22/2024 14:39	0.2	0.2	0.2	0.2
372	10/22/2024 14:40	0.2	0.2	0.2	0.2
373	10/22/2024 14:41	0.2	0.2	0.2	0.2
374	10/22/2024 14:42	0.2	0.2	0.2	0.2
375	10/22/2024 14:43	0.2	0.2	0.2	0.2
376	10/22/2024 14:44	0.2	0.2	0.2	0.2
377	10/22/2024 14:45	0.2	0.2	0.2	0.2
378	10/22/2024 14:46	0.2	0.2	0.2	0.2
379	10/22/2024 14:47	0.2	0.2	0.2	0.2
380	10/22/2024 14:48	0.2	0.2	0.2	0.2
381	10/22/2024 14:49	0.2	0.2	0.2	0.2
382	10/22/2024 14:50	0.2	0.2	0.2	0.2
383	10/22/2024 14:51	0.2	0.2	0.2	0.2
384	10/22/2024 14:52	0.2	0.2	0.2	0.2
385	10/22/2024 14:53	0.2	0.2	0.2	0.2
386	10/22/2024 14:54	0.2	0.2	0.2	0.2
387	10/22/2024 14:55	0.2	0.2	0.2	0.2
388	10/22/2024 14:56	0.2	0.2	0.2	0.2
389	10/22/2024 14:57	0.2	0.2	0.2	0.2
390	10/22/2024 14:58	0.2	0.2	0.2	0.2
391	10/22/2024 14:59	0.2	0.2	0.2	0.2
392	10/22/2024 15:00	0.2	0.2	0.2	0.2
393	10/22/2024 15:01	0.2	0.2	0.2	0.2
394	10/22/2024 15:02	0.2	0.2	0.2	0.2
395	10/22/2024 15:03	0.2	0.2	0.2	0.2
396	10/22/2024 15:04	0.2	0.2	0.2	0.2
397	10/22/2024 15:05	0.2	0.2	0.2	0.2
398	10/22/2024 15:06	0.2	0.2	0.2	0.2

399	10/22/2024 15:07	0.2	0.2	0.2	0.2
400	10/22/2024 15:08	0.2	0.2	0.2	0.2
401	10/22/2024 15:09	0.2	0.2	0.2	0.2
402	10/22/2024 15:10	0.2	0.2	0.2	0.2
403	10/22/2024 15:11	0.2	0.2	0.2	0.2
404	10/22/2024 15:12	0.2	0.2	0.2	0.2
405	10/22/2024 15:13	0.2	0.2	0.2	0.2
406	10/22/2024 15:14	0.2	0.2	0.2	0.2
407	10/22/2024 15:15	0.2	0.2	0.2	0.2
408	10/22/2024 15:16	0.2	0.2	0.2	0.2
409	10/22/2024 15:17	0.2	0.2	0.2	0.2
410	10/22/2024 15:18	0.2	0.2	0.2	0.2
411	10/22/2024 15:19	0.2	0.2	0.2	0.2
412	10/22/2024 15:20	0.2	0.2	0.2	0.2
413	10/22/2024 15:21	0.2	0.2	0.2	0.2
414	10/22/2024 15:22	0.2	0.2	0.2	0.2
415	10/22/2024 15:23	0.2	0.2	0.2	0.2
416	10/22/2024 15:24	0.2	0.2	0.2	0.2
417	10/22/2024 15:25	0.2	0.2	0.2	0.2
418	10/22/2024 15:26	0.2	0.2	0.2	0.2
419	10/22/2024 15:27	0.2	0.2	0.2	0.2
420	10/22/2024 15:28	0.2	0.2	0.2	0.2
421	10/22/2024 15:29	0.2	0.2	0.2	0.2
422	10/22/2024 15:30	0.2	0.2	0.2	0.2
423	10/22/2024 15:31	0.2	0.2	0.2	0.2
424	10/22/2024 15:32	0.2	0.2	0.2	0.2
425	10/22/2024 15:33	0.2	0.2	0.2	0.2
426	10/22/2024 15:34	0.2	0.2	0.2	0.2
427	10/22/2024 15:35	0.2	0.2	0.2	0.2
428	10/22/2024 15:36	0.2	0.2	0.2	0.2
429	10/22/2024 15:37	0.2	0.2	0.2	0.2
430	10/22/2024 15:38	0.2	0.2	0.2	0.2
431	10/22/2024 15:39	0.2	0.2	0.2	0.2
432	10/22/2024 15:40	0.2	0.2	0.2	0.2
433	10/22/2024 15:41	0.2	0.2	0.2	0.2
434	10/22/2024 15:42	0.2	0.2	0.2	0.2
435	10/22/2024 15:43	0.2	0.2	0.2	0.2
Peak		0.3	0.3	0.3	0.3
Min		0	0	0	0
Average		0.2	0.2	0.2	0.2

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24/10/23 07:16

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-601707
Unit Firmw	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Pause in Menu Mode

Site ID	RAE00000
User ID	USER0000

Begin	10/23/2024 7:16
End	10/23/2024 14:39
Sample Per	60
Number of	442

Sensor	PID(ppm)
Sensor SN	S023030649B3
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/23/2024 7:14
Peak	0
Min	0
Average	0

****

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/23/2024 7:17	0	0	0	0
2	10/23/2024 7:18	0	0	0	0
3	10/23/2024 7:19	0	0	0	0
4	10/23/2024 7:20	0	0	0	0
5	10/23/2024 7:21	0	0	0	0
6	10/23/2024 7:22	0	0	0	0
7	10/23/2024 7:23	0	0	0	0

8	10/23/2024 7:24	0	0	0	0
9	10/23/2024 7:25	0	0	0	0
10	10/23/2024 7:26	0	0	0	0
11	10/23/2024 7:27	0	0	0	0
12	10/23/2024 7:28	0	0	0	0
13	10/23/2024 7:29	0	0	0	0
14	10/23/2024 7:30	0	0	0	0
15	10/23/2024 7:31	0	0	0	0
16	10/23/2024 7:32	0	0	0	0
17	10/23/2024 7:33	0	0	0	0
18	10/23/2024 7:34	0	0	0	0
19	10/23/2024 7:35	0	0	0	0
20	10/23/2024 7:36	0	0	0	0
21	10/23/2024 7:37	0	0	0	0
22	10/23/2024 7:38	0	0	0	0
23	10/23/2024 7:39	0	0	0	0
24	10/23/2024 7:40	0	0	0	0
25	10/23/2024 7:41	0	0	0	0
26	10/23/2024 7:42	0	0	0	0
27	10/23/2024 7:43	0	0	0	0
28	10/23/2024 7:44	0	0	0	0
29	10/23/2024 7:45	0	0	0	0
30	10/23/2024 7:46	0	0	0	0
31	10/23/2024 7:47	0	0	0	0
32	10/23/2024 7:48	0	0	0	0
33	10/23/2024 7:49	0	0	0	0
34	10/23/2024 7:50	0	0	0	0
35	10/23/2024 7:51	0	0	0	0
36	10/23/2024 7:52	0	0	0	0
37	10/23/2024 7:53	0	0	0	0
38	10/23/2024 7:54	0	0	0	0
39	10/23/2024 7:55	0	0	0	0
40	10/23/2024 7:56	0	0	0	0
41	10/23/2024 7:57	0	0	0	0
42	10/23/2024 7:58	0	0	0	0
43	10/23/2024 7:59	0	0	0	0
44	10/23/2024 8:00	0	0	0	0
45	10/23/2024 8:01	0	0	0	0
46	10/23/2024 8:02	0	0	0	0
47	10/23/2024 8:03	0	0	0	0
48	10/23/2024 8:04	0	0	0	0
49	10/23/2024 8:05	0	0	0	0
50	10/23/2024 8:06	0	0	0	0
51	10/23/2024 8:07	0	0	0	0
52	10/23/2024 8:08	0	0	0	0
53	10/23/2024 8:09	0	0	0	0
54	10/23/2024 8:10	0	0	0	0
55	10/23/2024 8:11	0	0	0	0
56	10/23/2024 8:12	0	0	0	0

57	10/23/2024 8:13	0	0	0	0
58	10/23/2024 8:14	0	0	0	0
59	10/23/2024 8:15	0	0	0	0
60	10/23/2024 8:16	0	0	0	0
61	10/23/2024 8:17	0	0	0	0
62	10/23/2024 8:18	0	0	0	0
63	10/23/2024 8:19	0	0	0	0
64	10/23/2024 8:20	0	0	0	0
65	10/23/2024 8:21	0	0	0	0
66	10/23/2024 8:22	0	0	0	0
67	10/23/2024 8:23	0	0	0	0
68	10/23/2024 8:24	0	0	0	0
69	10/23/2024 8:25	0	0	0	0
70	10/23/2024 8:26	0	0	0	0
71	10/23/2024 8:27	0	0	0	0
72	10/23/2024 8:28	0	0	0	0
73	10/23/2024 8:29	0	0	0	0
74	10/23/2024 8:30	0	0	0	0
75	10/23/2024 8:31	0	0	0	0
76	10/23/2024 8:32	0	0	0	0
77	10/23/2024 8:33	0	0	0	0
78	10/23/2024 8:34	0	0	0	0
79	10/23/2024 8:35	0	0	0	0
80	10/23/2024 8:36	0	0	0	0
81	10/23/2024 8:37	0	0	0	0
82	10/23/2024 8:38	0	0	0	0
83	10/23/2024 8:39	0	0	0	0
84	10/23/2024 8:40	0	0	0	0
85	10/23/2024 8:41	0	0	0	0
86	10/23/2024 8:42	0	0	0	0
87	10/23/2024 8:43	0	0	0	0
88	10/23/2024 8:44	0	0	0	0
89	10/23/2024 8:45	0	0	0	0
90	10/23/2024 8:46	0	0	0	0
91	10/23/2024 8:47	0	0	0	0
92	10/23/2024 8:48	0	0	0	0
93	10/23/2024 8:49	0	0	0	0
94	10/23/2024 8:50	0	0	0	0
95	10/23/2024 8:51	0	0	0	0
96	10/23/2024 8:52	0	0	0	0
97	10/23/2024 8:53	0	0	0	0
98	10/23/2024 8:54	0	0	0	0
99	10/23/2024 8:55	0	0	0	0
100	10/23/2024 8:56	0	0	0	0
101	10/23/2024 8:57	0	0	0	0
102	10/23/2024 8:58	0	0	0	0
103	10/23/2024 8:59	0	0	0	0
104	10/23/2024 9:00	0	0	0	0
105	10/23/2024 9:01	0	0	0	0

106	10/23/2024 9:02	0	0	0	0
107	10/23/2024 9:03	0	0	0	0
108	10/23/2024 9:04	0	0	0	0
109	10/23/2024 9:05	0	0	0	0
110	10/23/2024 9:06	0	0	0	0
111	10/23/2024 9:07	0	0	0	0
112	10/23/2024 9:08	0	0	0	0
113	10/23/2024 9:09	0	0	0	0
114	10/23/2024 9:10	0	0	0	0
115	10/23/2024 9:11	0	0	0	0
116	10/23/2024 9:12	0	0	0	0
117	10/23/2024 9:13	0	0	0	0
118	10/23/2024 9:14	0	0	0	0
119	10/23/2024 9:15	0	0	0	0
120	10/23/2024 9:16	0	0	0	0
121	10/23/2024 9:17	0	0	0	0
122	10/23/2024 9:18	0	0	0	0
123	10/23/2024 9:19	0	0	0	0
124	10/23/2024 9:20	0	0	0	0
125	10/23/2024 9:21	0	0	0	0
126	10/23/2024 9:22	0	0	0	0
127	10/23/2024 9:23	0	0	0	0
128	10/23/2024 9:24	0	0	0	0
129	10/23/2024 9:25	0	0	0	0
130	10/23/2024 9:26	0	0	0	0
131	10/23/2024 9:27	0	0	0	0
132	10/23/2024 9:28	0	0	0	0
133	10/23/2024 9:29	0	0	0	0
134	10/23/2024 9:30	0	0	0	0
135	10/23/2024 9:31	0	0	0	0
136	10/23/2024 9:32	0	0	0	0
137	10/23/2024 9:33	0	0	0	0
138	10/23/2024 9:34	0	0	0	0
139	10/23/2024 9:35	0	0	0	0
140	10/23/2024 9:36	0	0	0	0
141	10/23/2024 9:37	0	0	0	0
142	10/23/2024 9:38	0	0	0	0
143	10/23/2024 9:39	0	0	0	0
144	10/23/2024 9:40	0	0	0	0
145	10/23/2024 9:41	0	0	0	0
146	10/23/2024 9:42	0	0	0	0
147	10/23/2024 9:43	0	0	0	0
148	10/23/2024 9:44	0	0	0	0
149	10/23/2024 9:45	0	0	0	0
150	10/23/2024 9:46	0	0	0	0
151	10/23/2024 9:47	0	0	0	0
152	10/23/2024 9:48	0	0	0	0
153	10/23/2024 9:49	0	0	0	0
154	10/23/2024 9:50	0	0	0	0

155	10/23/2024 9:51	0	0	0	0
156	10/23/2024 9:52	0	0	0	0
157	10/23/2024 9:53	0	0	0	0
158	10/23/2024 9:54	0	0	0	0
159	10/23/2024 9:55	0	0	0	0
160	10/23/2024 9:56	0	0	0	0
161	10/23/2024 9:57	0	0	0	0
162	10/23/2024 9:58	0	0	0	0
163	10/23/2024 9:59	0	0	0	0
164	10/23/2024 10:00	0	0	0	0
165	10/23/2024 10:01	0	0	0	0
166	10/23/2024 10:02	0	0	0	0
167	10/23/2024 10:03	0	0	0	0
168	10/23/2024 10:04	0	0	0	0
169	10/23/2024 10:05	0	0	0	0
170	10/23/2024 10:06	0	0	0	0
171	10/23/2024 10:07	0	0	0	0
172	10/23/2024 10:08	0	0	0	0
173	10/23/2024 10:09	0	0	0	0
174	10/23/2024 10:10	0	0	0	0
175	10/23/2024 10:11	0	0	0	0
176	10/23/2024 10:12	0	0	0	0
177	10/23/2024 10:13	0	0	0	0
178	10/23/2024 10:14	0	0	0	0
179	10/23/2024 10:15	0	0	0	0
180	10/23/2024 10:16	0	0	0	0
181	10/23/2024 10:17	0	0	0	0
182	10/23/2024 10:18	0	0	0	0
183	10/23/2024 10:19	0	0	0	0
184	10/23/2024 10:20	0	0	0	0
185	10/23/2024 10:21	0	0	0	0
186	10/23/2024 10:22	0	0	0	0
187	10/23/2024 10:23	0	0	0	0
188	10/23/2024 10:24	0	0	0	0
189	10/23/2024 10:25	0	0	0	0
190	10/23/2024 10:26	0	0	0	0
191	10/23/2024 10:27	0	0	0	0
192	10/23/2024 10:28	0	0	0	0
193	10/23/2024 10:29	0	0	0	0
194	10/23/2024 10:30	0	0	0	0
195	10/23/2024 10:31	0	0	0	0
196	10/23/2024 10:32	0	0	0	0
197	10/23/2024 10:33	0	0	0	0
198	10/23/2024 10:34	0	0	0	0
199	10/23/2024 10:35	0	0	0	0
200	10/23/2024 10:36	0	0	0	0
201	10/23/2024 10:37	0	0	0	0
202	10/23/2024 10:38	0	0	0	0
203	10/23/2024 10:39	0	0	0	0

204	10/23/2024 10:40	0	0	0	0
205	10/23/2024 10:41	0	0	0	0
206	10/23/2024 10:42	0	0	0	0
207	10/23/2024 10:43	0	0	0	0
208	10/23/2024 10:44	0	0	0	0
209	10/23/2024 10:45	0	0	0	0
210	10/23/2024 10:46	0	0	0	0
211	10/23/2024 10:47	0	0	0	0
212	10/23/2024 10:48	0	0	0	0
213	10/23/2024 10:49	0	0	0	0
214	10/23/2024 10:50	0	0	0	0
215	10/23/2024 10:51	0	0	0	0
216	10/23/2024 10:52	0	0	0	0
217	10/23/2024 10:53	0	0	0	0
218	10/23/2024 10:54	0	0	0	0
219	10/23/2024 10:55	0	0	0	0
220	10/23/2024 10:56	0	0	0	0
221	10/23/2024 10:57	0	0	0	0
222	10/23/2024 10:58	0	0	0	0
223	10/23/2024 10:59	0	0	0	0
224	10/23/2024 11:00	0	0	0	0
225	10/23/2024 11:01	0	0	0	0
226	10/23/2024 11:02	0	0	0	0
227	10/23/2024 11:03	0	0	0	0
228	10/23/2024 11:04	0	0	0	0
229	10/23/2024 11:05	0	0	0	0
230	10/23/2024 11:06	0	0	0	0
231	10/23/2024 11:07	0	0	0	0
232	10/23/2024 11:08	0	0	0	0
233	10/23/2024 11:09	0	0	0	0
234	10/23/2024 11:10	0	0	0	0
235	10/23/2024 11:11	0	0	0	0
236	10/23/2024 11:12	0	0	0	0
237	10/23/2024 11:13	0	0	0	0
238	10/23/2024 11:14	0	0	0	0
239	10/23/2024 11:15	0	0	0	0
240	10/23/2024 11:16	0	0	0	0
241	10/23/2024 11:17	0	0	0	0
242	10/23/2024 11:18	0	0	0	0
243	10/23/2024 11:19	0	0	0	0
244	10/23/2024 11:20	0	0	0	0
245	10/23/2024 11:21	0	0	0	0
246	10/23/2024 11:22	0	0	0	0
247	10/23/2024 11:23	0	0	0	0
248	10/23/2024 11:24	0	0	0	0
249	10/23/2024 11:25	0	0	0	0
250	10/23/2024 11:26	0	0	0	0
251	10/23/2024 11:27	0	0	0	0
252	10/23/2024 11:28	0	0	0	0

253	10/23/2024 11:29	0	0	0	0
254	10/23/2024 11:30	0	0	0	0
255	10/23/2024 11:31	0	0	0	0
256	10/23/2024 11:32	0	0	0	0
257	10/23/2024 11:33	0	0	0	0
258	10/23/2024 11:34	0	0	0	0
259	10/23/2024 11:35	0	0	0	0
260	10/23/2024 11:36	0	0	0	0
261	10/23/2024 11:37	0	0	0	0
262	10/23/2024 11:38	0	0	0	0
263	10/23/2024 11:39	0	0	0	0
264	10/23/2024 11:40	0	0	0	0
265	10/23/2024 11:41	0	0	0	0
266	10/23/2024 11:42	0	0	0	0
267	10/23/2024 11:43	0	0	0	0
268	10/23/2024 11:44	0	0	0	0
269	10/23/2024 11:45	0	0	0	0
270	10/23/2024 11:46	0	0	0	0
271	10/23/2024 11:47	0	0	0	0
272	10/23/2024 11:48	0	0	0	0
273	10/23/2024 11:49	0	0	0	0
274	10/23/2024 11:50	0	0	0	0
275	10/23/2024 11:51	0	0	0	0
276	10/23/2024 11:52	0	0	0	0
277	10/23/2024 11:53	0	0	0	0
278	10/23/2024 11:54	0	0	0	0
279	10/23/2024 11:55	0	0	0	0
280	10/23/2024 11:56	0	0	0	0
281	10/23/2024 11:57	0	0	0	0
282	10/23/2024 11:58	0	0	0	0
283	10/23/2024 11:59	0	0	0	0
284	10/23/2024 12:00	0	0	0	0
285	10/23/2024 12:01	0	0	0	0
286	10/23/2024 12:02	0	0	0	0
287	10/23/2024 12:03	0	0	0	0
288	10/23/2024 12:04	0	0	0	0
289	10/23/2024 12:05	0	0	0	0
290	10/23/2024 12:06	0	0	0	0
291	10/23/2024 12:07	0	0	0	0
292	10/23/2024 12:08	0	0	0	0
293	10/23/2024 12:09	0	0	0	0
294	10/23/2024 12:10	0	0	0	0
295	10/23/2024 12:11	0	0	0	0
296	10/23/2024 12:12	0	0	0	0
297	10/23/2024 12:13	0	0	0	0
298	10/23/2024 12:14	0	0	0	0
299	10/23/2024 12:15	0	0	0	0
300	10/23/2024 12:16	0	0	0	0
301	10/23/2024 12:17	0	0	0	0

302	10/23/2024 12:18	0	0	0	0
303	10/23/2024 12:19	0	0	0	0
304	10/23/2024 12:20	0	0	0	0
305	10/23/2024 12:21	0	0	0	0
306	10/23/2024 12:22	0	0	0	0
307	10/23/2024 12:23	0	0	0	0
308	10/23/2024 12:24	0	0	0	0
309	10/23/2024 12:25	0	0	0	0
310	10/23/2024 12:26	0	0	0	0
311	10/23/2024 12:27	0	0	0	0
312	10/23/2024 12:28	0	0	0	0
313	10/23/2024 12:29	0	0	0	0
314	10/23/2024 12:30	0	0	0	0
315	10/23/2024 12:31	0	0	0	0
316	10/23/2024 12:32	0	0	0	0
317	10/23/2024 12:33	0	0	0	0
318	10/23/2024 12:34	0	0	0	0
319	10/23/2024 12:35	0	0	0	0
320	10/23/2024 12:36	0	0	0	0
321	10/23/2024 12:37	0	0	0	0
322	10/23/2024 12:38	0	0	0	0
323	10/23/2024 12:39	0	0	0	0
324	10/23/2024 12:40	0	0	0	0
325	10/23/2024 12:41	0	0	0	0
326	10/23/2024 12:42	0	0	0	0
327	10/23/2024 12:43	0	0	0	0
328	10/23/2024 12:44	0	0	0	0
329	10/23/2024 12:45	0	0	0	0
330	10/23/2024 12:46	0	0	0	0
331	10/23/2024 12:47	0	0	0	0
332	10/23/2024 12:48	0	0	0	0
333	10/23/2024 12:49	0	0	0	0
334	10/23/2024 12:50	0	0	0	0
335	10/23/2024 12:51	0	0	0	0
336	10/23/2024 12:52	0	0	0	0
337	10/23/2024 12:53	0	0	0	0
338	10/23/2024 12:54	0	0	0	0
339	10/23/2024 12:55	0	0	0	0
340	10/23/2024 12:56	0	0	0	0
341	10/23/2024 12:57	0	0	0	0
342	10/23/2024 12:58	0	0	0	0
343	10/23/2024 12:59	0	0	0	0
344	10/23/2024 13:00	0	0	0	0
345	10/23/2024 13:01	0	0	0	0
346	10/23/2024 13:02	0	0	0	0
347	10/23/2024 13:03	0	0	0	0
348	10/23/2024 13:04	0	0	0	0
349	10/23/2024 13:05	0	0	0	0
350	10/23/2024 13:06	0	0	0	0

351	10/23/2024 13:07	0	0	0	0
352	10/23/2024 13:08	0	0	0	0
353	10/23/2024 13:09	0	0	0	0
354	10/23/2024 13:10	0	0	0	0
355	10/23/2024 13:11	0	0	0	0
356	10/23/2024 13:12	0	0	0	0
357	10/23/2024 13:13	0	0	0	0
358	10/23/2024 13:14	0	0	0	0
359	10/23/2024 13:15	0	0	0	0
360	10/23/2024 13:16	0	0	0	0
361	10/23/2024 13:17	0	0	0	0
362	10/23/2024 13:18	0	0	0	0
363	10/23/2024 13:19	0	0	0	0
364	10/23/2024 13:20	0	0	0	0
365	10/23/2024 13:21	0	0	0	0
366	10/23/2024 13:22	0	0	0	0
367	10/23/2024 13:23	0	0	0	0
368	10/23/2024 13:24	0	0	0	0
369	10/23/2024 13:25	0	0	0	0
370	10/23/2024 13:26	0	0	0	0
371	10/23/2024 13:27	0	0	0	0
372	10/23/2024 13:28	0	0	0	0
373	10/23/2024 13:29	0	0	0	0
374	10/23/2024 13:30	0	0	0	0
375	10/23/2024 13:31	0	0	0	0
376	10/23/2024 13:32	0	0	0	0
377	10/23/2024 13:33	0	0	0	0
378	10/23/2024 13:34	0	0	0	0
379	10/23/2024 13:35	0	0	0	0
380	10/23/2024 13:36	0	0	0	0
381	10/23/2024 13:37	0	0	0	0
382	10/23/2024 13:38	0	0	0	0
383	10/23/2024 13:39	0	0	0	0
384	10/23/2024 13:40	0	0	0	0
385	10/23/2024 13:41	0	0	0	0
386	10/23/2024 13:42	0	0	0	0
387	10/23/2024 13:43	0	0	0	0
388	10/23/2024 13:44	0	0	0	0
389	10/23/2024 13:45	0	0	0	0
390	10/23/2024 13:46	0	0	0	0
391	10/23/2024 13:47	0	0	0	0
392	10/23/2024 13:48	0	0	0	0
393	10/23/2024 13:49	0	0	0	0
394	10/23/2024 13:50	0	0	0	0
395	10/23/2024 13:51	0	0	0	0
396	10/23/2024 13:52	0	0	0	0
397	10/23/2024 13:53	0	0	0	0
398	10/23/2024 13:54	0	0	0	0

399	10/23/2024 13:55	0	0	0	0
400	10/23/2024 13:56	0	0	0	0
401	10/23/2024 13:57	0	0	0	0
402	10/23/2024 13:58	0	0	0	0
403	10/23/2024 13:59	0	0	0	0
404	10/23/2024 14:00	0	0	0	0
405	10/23/2024 14:01	0	0	0	0
406	10/23/2024 14:02	0	0	0	0
407	10/23/2024 14:03	0	0	0	0
408	10/23/2024 14:04	0	0	0	0
409	10/23/2024 14:05	0	0	0	0
410	10/23/2024 14:06	0	0	0	0
411	10/23/2024 14:07	0	0	0	0
412	10/23/2024 14:08	0	0	0	0
413	10/23/2024 14:09	0	0	0	0
414	10/23/2024 14:10	0	0	0	0
415	10/23/2024 14:11	0	0	0	0
416	10/23/2024 14:12	0	0	0	0
417	10/23/2024 14:13	0	0	0	0
418	10/23/2024 14:14	0	0	0	0
419	10/23/2024 14:15	0	0	0	0
420	10/23/2024 14:16	0	0	0	0
421	10/23/2024 14:17	0	0	0	0
422	10/23/2024 14:18	0	0	0	0
423	10/23/2024 14:19	0	0	0	0
424	10/23/2024 14:20	0	0	0	0
425	10/23/2024 14:21	0	0	0	0
426	10/23/2024 14:22	0	0	0	0
427	10/23/2024 14:23	0	0	0	0
428	10/23/2024 14:24	0	0	0	0
429	10/23/2024 14:25	0	0	0	0
430	10/23/2024 14:26	0	0	0	0
431	10/23/2024 14:27	0	0	0	0
432	10/23/2024 14:28	0	0	0	0
433	10/23/2024 14:29	0	0	0	0
434	10/23/2024 14:30	0	0	0	0
435	10/23/2024 14:31	0	0	0	0
436	10/23/2024 14:32	0	0	0	0
437	10/23/2024 14:33	0	0	0	0
438	10/23/2024 14:34	0	0	0	0
439	10/23/2024 14:35	0	0	0	0
440	10/23/2024 14:36	0	0	0	0
441	10/23/2024 14:37	0	0	0	0
442	10/23/2024 14:38	0	0	0	0
Peak		0	0	0	0
Min		0	0	0	0
Average		0	0	0	0

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24/10/24 07:10

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-601707
Unit Firmwa	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/24/2024 7:10
End	10/24/2024 15:11
Sample Per	60
Number of	480

Sensor	PID(ppm)
Sensor SN	S023030649B3
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/24/2024 7:10
Peak	0.4
Min	0
Average	0.2

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/24/2024 7:11	0.1	0.1	0.3	0.1
2	10/24/2024 7:12	0.1	0.1	0.2	0.1
3	10/24/2024 7:13	0	0.1	0.1	0.1
4	10/24/2024 7:14	0	0	0.1	0
5	10/24/2024 7:15	0	0	0.1	0
6	10/24/2024 7:16	0	0	0	0
7	10/24/2024 7:17	0	0	0.1	0.1
8	10/24/2024 7:18	0	0.1	0.1	0.1
9	10/24/2024 7:19	0	0.1	0.1	0
10	10/24/2024 7:20	0	0	0.1	0
11	10/24/2024 7:21	0	0	0	0
12	10/24/2024 7:22	0	0	0	0
13	10/24/2024 7:23	0	0	0	0
14	10/24/2024 7:24	0	0	0	0
15	10/24/2024 7:25	0	0	0	0
16	10/24/2024 7:26	0	0	0	0
17	10/24/2024 7:27	0	0	0	0
18	10/24/2024 7:28	0	0	0	0
19	10/24/2024 7:29	0	0	0	0
20	10/24/2024 7:30	0	0	0	0
21	10/24/2024 7:31	0	0	0	0
22	10/24/2024 7:32	0	0	0	0
23	10/24/2024 7:33	0	0	0	0
24	10/24/2024 7:34	0	0	0.1	0.1
25	10/24/2024 7:35	0.1	0.1	0.1	0.1
26	10/24/2024 7:36	0	0.1	0.1	0.1
27	10/24/2024 7:37	0	0	0.1	0
28	10/24/2024 7:38	0	0	0.1	0
29	10/24/2024 7:39	0	0	0.1	0
30	10/24/2024 7:40	0	0	0.1	0.1
31	10/24/2024 7:41	0	0	0.1	0
32	10/24/2024 7:42	0	0	0.1	0
33	10/24/2024 7:43	0	0	0	0
34	10/24/2024 7:44	0	0	0	0
35	10/24/2024 7:45	0	0	0	0
36	10/24/2024 7:46	0	0	0	0
37	10/24/2024 7:47	0	0.1	0.1	0.1
38	10/24/2024 7:48	0.1	0.1	0.1	0.1
39	10/24/2024 7:49	0.1	0.1	0.1	0.1
40	10/24/2024 7:50	0	0	0.1	0
41	10/24/2024 7:51	0	0	0	0

42	10/24/2024 7:52	0	0	0	0
43	10/24/2024 7:53	0	0	0.1	0
44	10/24/2024 7:54	0	0	0	0
45	10/24/2024 7:55	0	0	0	0
46	10/24/2024 7:56	0	0	0	0
47	10/24/2024 7:57	0	0	0.1	0
48	10/24/2024 7:58	0	0	0	0
49	10/24/2024 7:59	0	0	0	0
50	10/24/2024 8:00	0	0	0	0
51	10/24/2024 8:01	0	0	0	0
52	10/24/2024 8:02	0	0	0	0
53	10/24/2024 8:03	0	0	0	0
54	10/24/2024 8:04	0	0	0	0
55	10/24/2024 8:05	0	0	0	0
56	10/24/2024 8:06	0	0	0	0
57	10/24/2024 8:07	0	0	0.1	0
58	10/24/2024 8:08	0	0	0.1	0
59	10/24/2024 8:09	0	0	0	0
60	10/24/2024 8:10	0	0	0	0
61	10/24/2024 8:11	0	0	0	0
62	10/24/2024 8:12	0	0	0	0
63	10/24/2024 8:13	0	0	0.1	0
64	10/24/2024 8:14	0	0.1	0.1	0.1
65	10/24/2024 8:15	0.1	0.1	0.1	0.1
66	10/24/2024 8:16	0.1	0.1	0.1	0.1
67	10/24/2024 8:17	0.1	0.1	0.1	0.1
68	10/24/2024 8:18	0.1	0.1	0.1	0.1
69	10/24/2024 8:19	0.1	0.1	0.2	0.1
70	10/24/2024 8:20	0.1	0.1	0.1	0.1
71	10/24/2024 8:21	0.1	0.1	0.2	0.1
72	10/24/2024 8:22	0.1	0.1	0.1	0.1
73	10/24/2024 8:23	0.1	0.1	0.1	0.1
74	10/24/2024 8:24	0.1	0.1	0.1	0.1
75	10/24/2024 8:25	0.1	0.1	0.1	0.1
76	10/24/2024 8:26	0.1	0.1	0.1	0.1
77	10/24/2024 8:27	0.1	0.1	0.1	0.1
78	10/24/2024 8:28	0.1	0.1	0.1	0.1
79	10/24/2024 8:29	0.1	0.1	0.1	0.1
80	10/24/2024 8:30	0.1	0.1	0.1	0.1
81	10/24/2024 8:31	0.1	0.1	0.1	0.1
82	10/24/2024 8:32	0.1	0.1	0.1	0.1
83	10/24/2024 8:33	0.1	0.1	0.1	0.1
84	10/24/2024 8:34	0.1	0.1	0.1	0.1
85	10/24/2024 8:35	0.1	0.1	0.1	0.1

86	10/24/2024 8:36	0.1	0.1	0.1	0.1
87	10/24/2024 8:37	0.1	0.1	0.2	0.1
88	10/24/2024 8:38	0.1	0.1	0.1	0.1
89	10/24/2024 8:39	0.1	0.1	0.1	0.1
90	10/24/2024 8:40	0.1	0.1	0.1	0.1
91	10/24/2024 8:41	0.1	0.1	0.1	0.1
92	10/24/2024 8:42	0.1	0.1	0.1	0.1
93	10/24/2024 8:43	0.1	0.1	0.1	0.1
94	10/24/2024 8:44	0.1	0.1	0.1	0.1
95	10/24/2024 8:45	0.1	0.1	0.1	0.1
96	10/24/2024 8:46	0.1	0.1	0.1	0.1
97	10/24/2024 8:47	0.1	0.1	0.1	0.1
98	10/24/2024 8:48	0.1	0.1	0.2	0.1
99	10/24/2024 8:49	0.1	0.1	0.2	0.1
100	10/24/2024 8:50	0.1	0.2	0.2	0.2
101	10/24/2024 8:51	0.2	0.2	0.2	0.2
102	10/24/2024 8:52	0.2	0.2	0.2	0.2
103	10/24/2024 8:53	0.2	0.2	0.2	0.2
104	10/24/2024 8:54	0.2	0.2	0.2	0.2
105	10/24/2024 8:55	0.1	0.2	0.2	0.1
106	10/24/2024 8:56	0.1	0.1	0.2	0.1
107	10/24/2024 8:57	0.1	0.1	0.1	0.1
108	10/24/2024 8:58	0.1	0.1	0.1	0.1
109	10/24/2024 8:59	0.1	0.1	0.1	0.1
110	10/24/2024 9:00	0.1	0.1	0.1	0.1
111	10/24/2024 9:01	0.1	0.1	0.1	0.1
112	10/24/2024 9:02	0.1	0.1	0.2	0.1
113	10/24/2024 9:03	0.1	0.1	0.1	0.1
114	10/24/2024 9:04	0.1	0.1	0.1	0.1
115	10/24/2024 9:05	0.1	0.1	0.1	0.1
116	10/24/2024 9:06	0.1	0.1	0.1	0.1
117	10/24/2024 9:07	0.1	0.1	0.2	0.1
118	10/24/2024 9:08	0.1	0.1	0.1	0.1
119	10/24/2024 9:09	0.1	0.1	0.1	0.1
120	10/24/2024 9:10	0.1	0.1	0.1	0.1
121	10/24/2024 9:11	0.1	0.1	0.1	0.1
122	10/24/2024 9:12	0.1	0.1	0.1	0.1
123	10/24/2024 9:13	0.1	0.1	0.1	0.1
124	10/24/2024 9:14	0.1	0.1	0.1	0.1
125	10/24/2024 9:15	0.1	0.1	0.1	0.1
126	10/24/2024 9:16	0.1	0.1	0.1	0.1
127	10/24/2024 9:17	0.1	0.1	0.1	0.1
128	10/24/2024 9:18	0.1	0.1	0.1	0.1
129	10/24/2024 9:19	0.1	0.1	0.1	0.1

130	10/24/2024 9:20	0.1	0.1	0.1	0.1
131	10/24/2024 9:21	0.1	0.1	0.1	0.1
132	10/24/2024 9:22	0.1	0.1	0.1	0.1
133	10/24/2024 9:23	0.1	0.1	0.1	0.1
134	10/24/2024 9:24	0.1	0.1	0.1	0.1
135	10/24/2024 9:25	0.1	0.1	0.1	0.1
136	10/24/2024 9:26	0.1	0.1	0.1	0.1
137	10/24/2024 9:27	0.1	0.1	0.1	0.1
138	10/24/2024 9:28	0.1	0.1	0.1	0.1
139	10/24/2024 9:29	0.1	0.1	0.1	0.1
140	10/24/2024 9:30	0.1	0.1	0.1	0.1
141	10/24/2024 9:31	0.1	0.1	0.1	0.1
142	10/24/2024 9:32	0.1	0.1	0.2	0.1
143	10/24/2024 9:33	0.1	0.1	0.1	0.1
144	10/24/2024 9:34	0.1	0.1	0.2	0.2
145	10/24/2024 9:35	0.1	0.2	0.2	0.2
146	10/24/2024 9:36	0.1	0.2	0.2	0.2
147	10/24/2024 9:37	0.1	0.2	0.2	0.2
148	10/24/2024 9:38	0.2	0.2	0.2	0.2
149	10/24/2024 9:39	0.2	0.2	0.2	0.2
150	10/24/2024 9:40	0.1	0.2	0.2	0.1
151	10/24/2024 9:41	0.1	0.2	0.2	0.2
152	10/24/2024 9:42	0.1	0.2	0.2	0.2
153	10/24/2024 9:43	0.2	0.2	0.2	0.2
154	10/24/2024 9:44	0.2	0.2	0.2	0.2
155	10/24/2024 9:45	0.2	0.2	0.2	0.2
156	10/24/2024 9:46	0.2	0.2	0.2	0.2
157	10/24/2024 9:47	0.2	0.2	0.2	0.2
158	10/24/2024 9:48	0.2	0.2	0.2	0.2
159	10/24/2024 9:49	0.2	0.2	0.2	0.2
160	10/24/2024 9:50	0.2	0.2	0.2	0.2
161	10/24/2024 9:51	0.2	0.2	0.2	0.2
162	10/24/2024 9:52	0.2	0.2	0.2	0.2
163	10/24/2024 9:53	0.2	0.2	0.2	0.2
164	10/24/2024 9:54	0.2	0.2	0.2	0.2
165	10/24/2024 9:55	0.2	0.2	0.2	0.2
166	10/24/2024 9:56	0.2	0.2	0.2	0.2
167	10/24/2024 9:57	0.2	0.2	0.3	0.2
168	10/24/2024 9:58	0.2	0.2	0.2	0.2
169	10/24/2024 9:59	0.2	0.2	0.2	0.2
170	10/24/2024 10:00	0.2	0.2	0.2	0.2
171	10/24/2024 10:01	0.2	0.2	0.3	0.2
172	10/24/2024 10:02	0.2	0.2	0.2	0.2
173	10/24/2024 10:03	0.2	0.2	0.3	0.2

174	10/24/2024 10:04	0.2	0.2	0.3	0.2
175	10/24/2024 10:05	0.2	0.2	0.3	0.2
176	10/24/2024 10:06	0.2	0.2	0.3	0.2
177	10/24/2024 10:07	0.2	0.2	0.3	0.3
178	10/24/2024 10:08	0.2	0.2	0.3	0.2
179	10/24/2024 10:09	0.2	0.2	0.3	0.2
180	10/24/2024 10:10	0.2	0.2	0.3	0.2
181	10/24/2024 10:11	0.2	0.3	0.3	0.3
182	10/24/2024 10:12	0.2	0.3	0.3	0.3
183	10/24/2024 10:13	0.2	0.3	0.3	0.3
184	10/24/2024 10:14	0.3	0.3	0.3	0.3
185	10/24/2024 10:15	0.3	0.3	0.3	0.3
186	10/24/2024 10:16	0.3	0.3	0.3	0.3
187	10/24/2024 10:17	0.3	0.3	0.3	0.3
188	10/24/2024 10:18	0.2	0.3	0.3	0.3
189	10/24/2024 10:19	0.2	0.3	0.3	0.3
190	10/24/2024 10:20	0.2	0.3	0.3	0.3
191	10/24/2024 10:21	0.2	0.3	0.3	0.2
192	10/24/2024 10:22	0.2	0.2	0.3	0.2
193	10/24/2024 10:23	0.2	0.2	0.2	0.2
194	10/24/2024 10:24	0.2	0.2	0.2	0.2
195	10/24/2024 10:25	0.2	0.2	0.2	0.2
196	10/24/2024 10:26	0.2	0.2	0.2	0.2
197	10/24/2024 10:27	0.2	0.2	0.2	0.2
198	10/24/2024 10:28	0.2	0.2	0.2	0.2
199	10/24/2024 10:29	0.2	0.2	0.2	0.2
200	10/24/2024 10:30	0.2	0.2	0.2	0.2
201	10/24/2024 10:31	0.2	0.2	0.2	0.2
202	10/24/2024 10:32	0.2	0.2	0.2	0.2
203	10/24/2024 10:33	0.2	0.2	0.2	0.2
204	10/24/2024 10:34	0.2	0.2	0.2	0.2
205	10/24/2024 10:35	0.2	0.2	0.2	0.2
206	10/24/2024 10:36	0.2	0.2	0.2	0.2
207	10/24/2024 10:37	0.2	0.2	0.2	0.2
208	10/24/2024 10:38	0.2	0.2	0.2	0.2
209	10/24/2024 10:39	0.2	0.2	0.2	0.2
210	10/24/2024 10:40	0.2	0.2	0.2	0.2
211	10/24/2024 10:41	0.2	0.2	0.2	0.2
212	10/24/2024 10:42	0.2	0.2	0.2	0.2
213	10/24/2024 10:43	0.2	0.2	0.2	0.2
214	10/24/2024 10:44	0.2	0.2	0.2	0.2
215	10/24/2024 10:45	0.2	0.2	0.2	0.2
216	10/24/2024 10:46	0.2	0.2	0.2	0.2
217	10/24/2024 10:47	0.2	0.2	0.2	0.2

218	10/24/2024 10:48	0.2	0.2	0.2	0.2
219	10/24/2024 10:49	0.2	0.2	0.2	0.2
220	10/24/2024 10:50	0.2	0.3	0.4	0.4
221	10/24/2024 10:51	0.3	0.3	0.4	0.3
222	10/24/2024 10:52	0.3	0.3	0.3	0.3
223	10/24/2024 10:53	0.3	0.3	0.3	0.3
224	10/24/2024 10:54	0.3	0.3	0.3	0.3
225	10/24/2024 10:55	0.3	0.5	0.7	0.4
226	10/24/2024 10:56	0.3	0.3	0.4	0.3
227	10/24/2024 10:57	0.3	0.3	0.3	0.3
228	10/24/2024 10:58	0.3	0.3	0.3	0.3
229	10/24/2024 10:59	0.3	0.3	0.3	0.3
230	10/24/2024 11:00	0.3	0.3	0.3	0.3
231	10/24/2024 11:01	0.3	0.3	0.3	0.3
232	10/24/2024 11:02	0.3	0.3	0.3	0.3
233	10/24/2024 11:03	0.3	0.3	0.3	0.3
234	10/24/2024 11:04	0.3	0.3	0.3	0.3
235	10/24/2024 11:05	0.3	0.3	0.3	0.3
236	10/24/2024 11:06	0.3	0.3	0.3	0.3
237	10/24/2024 11:07	0.2	0.3	0.3	0.2
238	10/24/2024 11:08	0.2	0.3	0.3	0.3
239	10/24/2024 11:09	0.2	0.3	0.3	0.3
240	10/24/2024 11:10	0.2	0.3	0.3	0.3
241	10/24/2024 11:11	0.2	0.2	0.3	0.3
242	10/24/2024 11:12	0.2	0.3	0.3	0.3
243	10/24/2024 11:13	0.2	0.3	0.3	0.3
244	10/24/2024 11:14	0.2	0.3	0.3	0.2
245	10/24/2024 11:15	0.2	0.3	0.3	0.3
246	10/24/2024 11:16	0.2	0.3	0.3	0.3
247	10/24/2024 11:17	0.2	0.3	0.3	0.3
248	10/24/2024 11:18	0.3	0.3	0.3	0.3
249	10/24/2024 11:19	0.2	0.3	0.3	0.3
250	10/24/2024 11:20	0.3	0.3	0.3	0.3
251	10/24/2024 11:21	0.2	0.3	0.3	0.3
252	10/24/2024 11:22	0.3	0.3	0.3	0.3
253	10/24/2024 11:23	0.2	0.3	0.3	0.3
254	10/24/2024 11:24	0.3	0.3	0.3	0.3
255	10/24/2024 11:25	0.3	0.3	0.3	0.3
256	10/24/2024 11:26	0.3	0.3	0.3	0.3
257	10/24/2024 11:27	0.3	0.3	0.3	0.3
258	10/24/2024 11:28	0.3	0.3	0.3	0.3
259	10/24/2024 11:29	0.3	0.3	0.3	0.3
260	10/24/2024 11:30	0.2	0.3	0.3	0.3
261	10/24/2024 11:31	0.3	0.3	0.3	0.3

262	10/24/2024 11:32	0.3	0.3	0.3	0.3
263	10/24/2024 11:33	0.3	0.3	0.3	0.3
264	10/24/2024 11:34	0.3	0.3	0.3	0.3
265	10/24/2024 11:35	0.3	0.3	0.3	0.3
266	10/24/2024 11:36	0.3	0.3	0.3	0.3
267	10/24/2024 11:37	0.3	0.3	0.3	0.3
268	10/24/2024 11:38	0.3	0.3	0.3	0.3
269	10/24/2024 11:39	0.3	0.3	0.3	0.3
270	10/24/2024 11:40	0.3	0.3	0.3	0.3
271	10/24/2024 11:41	0.3	0.3	0.3	0.3
272	10/24/2024 11:42	0.3	0.3	0.3	0.3
273	10/24/2024 11:43	0.3	0.3	0.3	0.3
274	10/24/2024 11:44	0.3	0.3	0.3	0.3
275	10/24/2024 11:45	0.3	0.3	0.3	0.3
276	10/24/2024 11:46	0.3	0.3	0.3	0.3
277	10/24/2024 11:47	0.3	0.3	0.3	0.3
278	10/24/2024 11:48	0.3	0.3	0.3	0.3
279	10/24/2024 11:49	0.3	0.3	0.3	0.3
280	10/24/2024 11:50	0.3	0.3	0.3	0.3
281	10/24/2024 11:51	0.3	0.3	0.3	0.3
282	10/24/2024 11:52	0.3	0.3	0.3	0.3
283	10/24/2024 11:53	0.3	0.3	0.3	0.3
284	10/24/2024 11:54	0.3	0.3	0.3	0.3
285	10/24/2024 11:55	0.3	0.3	0.3	0.3
286	10/24/2024 11:56	0.3	0.3	0.3	0.3
287	10/24/2024 11:57	0.3	0.3	0.3	0.3
288	10/24/2024 11:58	0.3	0.3	0.3	0.3
289	10/24/2024 11:59	0.3	0.3	0.3	0.3
290	10/24/2024 12:00	0.3	0.3	0.3	0.3
291	10/24/2024 12:01	0.3	0.3	0.3	0.3
292	10/24/2024 12:02	0.3	0.3	0.3	0.3
293	10/24/2024 12:03	0.3	0.3	0.3	0.3
294	10/24/2024 12:04	0.3	0.3	0.3	0.3
295	10/24/2024 12:05	0.3	0.3	0.3	0.3
296	10/24/2024 12:06	0.3	0.3	0.3	0.3
297	10/24/2024 12:07	0.3	0.3	0.3	0.3
298	10/24/2024 12:08	0.3	0.3	0.3	0.3
299	10/24/2024 12:09	0.3	0.3	0.3	0.3
300	10/24/2024 12:10	0.3	0.3	0.3	0.3
301	10/24/2024 12:11	0.3	0.3	0.3	0.3
302	10/24/2024 12:12	0.3	0.3	0.3	0.3
303	10/24/2024 12:13	0.3	0.3	0.3	0.3
304	10/24/2024 12:14	0.3	0.3	0.3	0.3
305	10/24/2024 12:15	0.3	0.3	0.3	0.3

306	10/24/2024 12:16	0.3	0.3	0.3	0.3
307	10/24/2024 12:17	0.3	0.3	0.3	0.3
308	10/24/2024 12:18	0.3	0.3	0.3	0.3
309	10/24/2024 12:19	0.3	0.3	0.3	0.3
310	10/24/2024 12:20	0.3	0.3	0.3	0.3
311	10/24/2024 12:21	0.3	0.3	0.3	0.3
312	10/24/2024 12:22	0.3	0.3	0.3	0.3
313	10/24/2024 12:23	0.3	0.3	0.3	0.3
314	10/24/2024 12:24	0.3	0.3	0.3	0.3
315	10/24/2024 12:25	0.3	0.3	0.3	0.3
316	10/24/2024 12:26	0.3	0.3	0.3	0.3
317	10/24/2024 12:27	0.3	0.3	0.3	0.3
318	10/24/2024 12:28	0.3	0.3	0.3	0.3
319	10/24/2024 12:29	0.3	0.3	0.3	0.3
320	10/24/2024 12:30	0.3	0.3	0.3	0.3
321	10/24/2024 12:31	0.3	0.3	0.3	0.3
322	10/24/2024 12:32	0.3	0.3	0.3	0.3
323	10/24/2024 12:33	0.3	0.3	0.3	0.3
324	10/24/2024 12:34	0.3	0.3	0.3	0.3
325	10/24/2024 12:35	0.3	0.3	0.3	0.3
326	10/24/2024 12:36	0.3	0.3	0.3	0.3
327	10/24/2024 12:37	0.3	0.3	0.3	0.3
328	10/24/2024 12:38	0.3	0.3	0.3	0.3
329	10/24/2024 12:39	0.3	0.3	0.3	0.3
330	10/24/2024 12:40	0.3	0.3	0.3	0.3
331	10/24/2024 12:41	0.3	0.3	0.3	0.3
332	10/24/2024 12:42	0.3	0.3	0.3	0.3
333	10/24/2024 12:43	0.3	0.3	0.3	0.3
334	10/24/2024 12:44	0.3	0.3	0.3	0.3
335	10/24/2024 12:45	0.3	0.3	0.3	0.3
336	10/24/2024 12:46	0.3	0.3	0.4	0.3
337	10/24/2024 12:47	0.3	0.3	0.3	0.3
338	10/24/2024 12:48	0.3	0.3	0.3	0.3
339	10/24/2024 12:49	0.3	0.3	0.3	0.3
340	10/24/2024 12:50	0.3	0.3	0.3	0.3
341	10/24/2024 12:51	0.3	0.3	0.3	0.3
342	10/24/2024 12:52	0.3	0.3	0.3	0.3
343	10/24/2024 12:53	0.3	0.3	0.3	0.3
344	10/24/2024 12:54	0.3	0.3	0.3	0.3
345	10/24/2024 12:55	0.3	0.3	0.3	0.3
346	10/24/2024 12:56	0.3	0.3	0.3	0.3
347	10/24/2024 12:57	0.3	0.3	0.3	0.3
348	10/24/2024 12:58	0.3	0.3	0.3	0.3
349	10/24/2024 12:59	0.3	0.3	0.3	0.3

350	10/24/2024 13:00	0.3	0.3	0.3	0.3
351	10/24/2024 13:01	0.3	0.3	0.3	0.3
352	10/24/2024 13:02	0.3	0.3	0.3	0.3
353	10/24/2024 13:03	0.3	0.3	0.3	0.3
354	10/24/2024 13:04	0.3	0.3	0.3	0.3
355	10/24/2024 13:05	0.3	0.3	0.3	0.3
356	10/24/2024 13:06	0.3	0.3	0.3	0.3
357	10/24/2024 13:07	0.3	0.3	0.3	0.3
358	10/24/2024 13:08	0.3	0.3	0.3	0.3
359	10/24/2024 13:09	0.3	0.3	0.3	0.3
360	10/24/2024 13:10	0.3	0.3	0.3	0.3
361	10/24/2024 13:11	0.3	0.3	0.3	0.3
362	10/24/2024 13:12	0.3	0.3	0.3	0.3
363	10/24/2024 13:13	0.3	0.3	0.3	0.3
364	10/24/2024 13:14	0.3	0.3	0.3	0.3
365	10/24/2024 13:15	0.3	0.3	0.3	0.3
366	10/24/2024 13:16	0.3	0.3	0.3	0.3
367	10/24/2024 13:17	0.3	0.3	0.3	0.3
368	10/24/2024 13:18	0.3	0.3	0.3	0.3
369	10/24/2024 13:19	0.3	0.3	0.3	0.3
370	10/24/2024 13:20	0.3	0.3	0.3	0.3
371	10/24/2024 13:21	0.3	0.3	0.3	0.3
372	10/24/2024 13:22	0.3	0.3	0.3	0.3
373	10/24/2024 13:23	0.3	0.3	0.3	0.3
374	10/24/2024 13:24	0.3	0.3	0.3	0.3
375	10/24/2024 13:25	0.2	0.3	0.3	0.3
376	10/24/2024 13:26	0.2	0.3	0.3	0.3
377	10/24/2024 13:27	0.2	0.2	0.3	0.2
378	10/24/2024 13:28	0.2	0.3	0.3	0.3
379	10/24/2024 13:29	0.2	0.2	0.3	0.3
380	10/24/2024 13:30	0.2	0.2	0.3	0.2
381	10/24/2024 13:31	0.2	0.2	0.3	0.2
382	10/24/2024 13:32	0.2	0.2	0.2	0.2
383	10/24/2024 13:33	0.2	0.3	0.3	0.3
384	10/24/2024 13:34	0.2	0.3	0.3	0.2
385	10/24/2024 13:35	0.2	0.2	0.2	0.2
386	10/24/2024 13:36	0.2	0.2	0.3	0.2
387	10/24/2024 13:37	0.2	0.2	0.2	0.2
388	10/24/2024 13:38	0.2	0.2	0.2	0.2
389	10/24/2024 13:39	0.2	0.2	0.2	0.2
390	10/24/2024 13:40	0.2	0.2	0.2	0.2
391	10/24/2024 13:41	0.2	0.2	0.2	0.2
392	10/24/2024 13:42	0.2	0.2	0.2	0.2
393	10/24/2024 13:43	0.2	0.2	0.2	0.2

394	10/24/2024 13:44	0.2	0.2	0.2	0.2
395	10/24/2024 13:45	0.2	0.2	0.2	0.2
396	10/24/2024 13:46	0.2	0.2	0.2	0.2
397	10/24/2024 13:47	0.2	0.2	0.2	0.2
398	10/24/2024 13:48	0.2	0.2	0.2	0.2
399	10/24/2024 13:49	0.2	0.2	0.2	0.2
400	10/24/2024 13:50	0.2	0.2	0.2	0.2
401	10/24/2024 13:51	0.2	0.2	0.2	0.2
402	10/24/2024 13:52	0.2	0.2	0.2	0.2
403	10/24/2024 13:53	0.2	0.2	0.2	0.2
404	10/24/2024 13:54	0.2	0.2	0.2	0.2
405	10/24/2024 13:55	0.2	0.2	0.2	0.2
406	10/24/2024 13:56	0.2	0.2	0.2	0.2
407	10/24/2024 13:57	0.2	0.2	0.2	0.2
408	10/24/2024 13:58	0.2	0.2	0.2	0.2
409	10/24/2024 13:59	0.2	0.2	0.2	0.2
410	10/24/2024 14:00	0.2	0.2	0.2	0.2
411	10/24/2024 14:01	0.2	0.2	0.2	0.2
412	10/24/2024 14:02	0.2	0.2	0.2	0.2
413	10/24/2024 14:03	0.2	0.2	0.2	0.2
414	10/24/2024 14:04	0.2	0.2	0.2	0.2
415	10/24/2024 14:05	0.2	0.2	0.2	0.2
416	10/24/2024 14:06	0.2	0.2	0.2	0.2
417	10/24/2024 14:07	0.2	0.2	0.2	0.2
418	10/24/2024 14:08	0.2	0.2	0.2	0.2
419	10/24/2024 14:09	0.2	0.2	0.2	0.2
420	10/24/2024 14:10	0.2	0.2	0.3	0.3
421	10/24/2024 14:11	0.3	0.3	0.4	0.3
422	10/24/2024 14:12	0.2	0.3	0.3	0.3
423	10/24/2024 14:13	0.2	0.2	0.3	0.2
424	10/24/2024 14:14	0.2	0.2	0.2	0.2
425	10/24/2024 14:15	0.2	0.2	0.2	0.2
426	10/24/2024 14:16	0.2	0.2	0.2	0.2
427	10/24/2024 14:17	0.2	0.2	0.2	0.2
428	10/24/2024 14:18	0.2	0.2	0.2	0.2
429	10/24/2024 14:19	0.2	0.2	0.2	0.2
430	10/24/2024 14:20	0.2	0.2	0.2	0.2
431	10/24/2024 14:21	0.2	0.2	0.2	0.2
432	10/24/2024 14:22	0.2	0.2	0.2	0.2
433	10/24/2024 14:23	0.2	0.2	0.2	0.2
434	10/24/2024 14:24	0.2	0.2	0.2	0.2
435	10/24/2024 14:25	0.2	0.2	0.2	0.2
436	10/24/2024 14:26	0.2	0.2	0.2	0.2
437	10/24/2024 14:27	0.2	0.2	0.2	0.2

	438	10/24/2024 14:28	0.2	0.2	0.2	0.2
	439	10/24/2024 14:29	0.2	0.2	0.2	0.2
	440	10/24/2024 14:30	0.2	0.2	0.2	0.2
	441	10/24/2024 14:31	0.2	0.2	0.2	0.2
	442	10/24/2024 14:32	0.2	0.2	0.2	0.2
	443	10/24/2024 14:33	0.2	0.2	0.2	0.2
	444	10/24/2024 14:34	0.2	0.2	0.2	0.2
	445	10/24/2024 14:35	0.2	0.2	0.2	0.2
	446	10/24/2024 14:36	0.2	0.2	0.2	0.2
	447	10/24/2024 14:37	0.2	0.2	0.2	0.2
	448	10/24/2024 14:38	0.2	0.2	0.2	0.2
	449	10/24/2024 14:39	0.2	0.2	0.2	0.2
	450	10/24/2024 14:40	0.2	0.2	0.2	0.2
	451	10/24/2024 14:41	0.2	0.2	0.2	0.2
	452	10/24/2024 14:42	0.2	0.2	0.2	0.2
	453	10/24/2024 14:43	0.2	0.2	0.2	0.2
	454	10/24/2024 14:44	0.2	0.2	0.2	0.2
	455	10/24/2024 14:45	0.2	0.2	0.2	0.2
	456	10/24/2024 14:46	0.2	0.2	0.2	0.2
	457	10/24/2024 14:47	0.2	0.2	0.2	0.2
	458	10/24/2024 14:48	0.2	0.2	0.2	0.2
	459	10/24/2024 14:49	0.2	0.2	0.2	0.2
	460	10/24/2024 14:50	0.2	0.2	0.2	0.2
	461	10/24/2024 14:51	0.2	0.2	0.2	0.2
	462	10/24/2024 14:52	0.2	0.2	0.2	0.2
	463	10/24/2024 14:53	0.2	0.2	0.2	0.2
	464	10/24/2024 14:54	0.2	0.2	0.2	0.2
	465	10/24/2024 14:55	0.2	0.2	0.2	0.2
	466	10/24/2024 14:56	0.2	0.2	0.2	0.2
	467	10/24/2024 14:57	0.2	0.2	0.2	0.2
	468	10/24/2024 14:58	0.2	0.2	0.2	0.2
	469	10/24/2024 14:59	0.2	0.2	0.2	0.2
	470	10/24/2024 15:00	0.2	0.2	0.2	0.2
	471	10/24/2024 15:01	0.2	0.2	0.2	0.2
	472	10/24/2024 15:02	0.2	0.2	0.2	0.2
	473	10/24/2024 15:03	0.2	0.2	0.2	0.2
	474	10/24/2024 15:04	0.2	0.2	0.2	0.2
	475	10/24/2024 15:05	0.2	0.2	0.2	0.2
	476	10/24/2024 15:06	0.2	0.2	0.2	0.2
	477	10/24/2024 15:07	0.2	0.2	0.2	0.2
	478	10/24/2024 15:08	0.2	0.2	0.2	0.2
	479	10/24/2024 15:09	0.2	0.2	0.2	0.2
	480	10/24/2024 15:10	0.2	0.2	0.2	0.2
Peak			0.3	0.5	0.7	0.4

Min	0	0	0	0
Average	0.2	0.2	0.2	0.2

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24/10/25 07:49

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-601707
Unit Firmwa	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/25/2024 7:49
End	10/25/2024 15:45
Sample Per	60
Number of	476

Sensor	PID(ppm)
Sensor SN	S023030649B3
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/25/2024 7:48
Peak	0
Min	0
Average	0

****

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/25/2024 7:50	0	0	0	0
2	10/25/2024 7:51	0	0	0	0

3	10/25/2024 7:52	0	0	0	0
4	10/25/2024 7:53	0	0	0	0
5	10/25/2024 7:54	0	0	0	0
6	10/25/2024 7:55	0	0	0	0
7	10/25/2024 7:56	0	0	0	0
8	10/25/2024 7:57	0	0	0	0
9	10/25/2024 7:58	0	0	0	0
10	10/25/2024 7:59	0	0	0	0
11	10/25/2024 8:00	0	0	0	0
12	10/25/2024 8:01	0	0	0	0
13	10/25/2024 8:02	0	0	0	0
14	10/25/2024 8:03	0	0	0	0
15	10/25/2024 8:04	0	0	0	0
16	10/25/2024 8:05	0	0	0	0
17	10/25/2024 8:06	0	0	0	0
18	10/25/2024 8:07	0	0	0	0
19	10/25/2024 8:08	0	0	0	0
20	10/25/2024 8:09	0	0	0	0
21	10/25/2024 8:10	0	0	0	0
22	10/25/2024 8:11	0	0	0	0
23	10/25/2024 8:12	0	0	0	0
24	10/25/2024 8:13	0	0	0	0
25	10/25/2024 8:14	0	0	0	0
26	10/25/2024 8:15	0	0	0	0
27	10/25/2024 8:16	0	0	0	0
28	10/25/2024 8:17	0	0	0	0
29	10/25/2024 8:18	0	0	0	0
30	10/25/2024 8:19	0	0	0	0
31	10/25/2024 8:20	0	0	0	0
32	10/25/2024 8:21	0	0	0	0
33	10/25/2024 8:22	0	0	0	0
34	10/25/2024 8:23	0	0	0	0
35	10/25/2024 8:24	0	0	0	0
36	10/25/2024 8:25	0	0	0	0
37	10/25/2024 8:26	0	0	0	0
38	10/25/2024 8:27	0	0	0	0
39	10/25/2024 8:28	0	0	0	0
40	10/25/2024 8:29	0	0	0	0
41	10/25/2024 8:30	0	0	0	0
42	10/25/2024 8:31	0	0	0	0
43	10/25/2024 8:32	0	0	0	0
44	10/25/2024 8:33	0	0	0	0
45	10/25/2024 8:34	0	0	0	0
46	10/25/2024 8:35	0	0	0	0

47	10/25/2024 8:36	0	0	0	0
48	10/25/2024 8:37	0	0	0	0
49	10/25/2024 8:38	0	0	0	0
50	10/25/2024 8:39	0	0	0	0
51	10/25/2024 8:40	0	0	0	0
52	10/25/2024 8:41	0	0	0	0
53	10/25/2024 8:42	0	0	0	0
54	10/25/2024 8:43	0	0	0	0
55	10/25/2024 8:44	0	0	0	0
56	10/25/2024 8:45	0	0	0	0
57	10/25/2024 8:46	0	0	0	0
58	10/25/2024 8:47	0	0	0	0
59	10/25/2024 8:48	0	0	0	0
60	10/25/2024 8:49	0	0	0	0
61	10/25/2024 8:50	0	0	0	0
62	10/25/2024 8:51	0	0	0	0
63	10/25/2024 8:52	0	0	0	0
64	10/25/2024 8:53	0	0	0	0
65	10/25/2024 8:54	0	0	0	0
66	10/25/2024 8:55	0	0	0	0
67	10/25/2024 8:56	0	0	0	0
68	10/25/2024 8:57	0	0	0	0
69	10/25/2024 8:58	0	0	0	0
70	10/25/2024 8:59	0	0	0	0
71	10/25/2024 9:00	0	0	0	0
72	10/25/2024 9:01	0	0	0	0
73	10/25/2024 9:02	0	0	0	0
74	10/25/2024 9:03	0	0	0	0
75	10/25/2024 9:04	0	0	0	0
76	10/25/2024 9:05	0	0	0	0
77	10/25/2024 9:06	0	0	0	0
78	10/25/2024 9:07	0	0	0	0
79	10/25/2024 9:08	0	0	0	0
80	10/25/2024 9:09	0	0	0	0
81	10/25/2024 9:10	0	0	0	0
82	10/25/2024 9:11	0	0	0	0
83	10/25/2024 9:12	0	0	0	0
84	10/25/2024 9:13	0	0	0	0
85	10/25/2024 9:14	0	0	0	0
86	10/25/2024 9:15	0	0	0	0
87	10/25/2024 9:16	0	0	0	0
88	10/25/2024 9:17	0	0	0	0
89	10/25/2024 9:18	0	0	0	0
90	10/25/2024 9:19	0	0	0	0

91	10/25/2024 9:20	0	0	0	0
92	10/25/2024 9:21	0	0	0	0
93	10/25/2024 9:22	0	0	0	0
94	10/25/2024 9:23	0	0	0	0
95	10/25/2024 9:24	0	0	0	0
96	10/25/2024 9:25	0	0	0	0
97	10/25/2024 9:26	0	0	0	0
98	10/25/2024 9:27	0	0	0	0
99	10/25/2024 9:28	0	0	0	0
100	10/25/2024 9:29	0	0	0	0
101	10/25/2024 9:30	0	0	0	0
102	10/25/2024 9:31	0	0	0	0
103	10/25/2024 9:32	0	0	0	0
104	10/25/2024 9:33	0	0	0	0
105	10/25/2024 9:34	0	0	0	0
106	10/25/2024 9:35	0	0	0	0
107	10/25/2024 9:36	0	0	0	0
108	10/25/2024 9:37	0	0	0	0
109	10/25/2024 9:38	0	0	0	0
110	10/25/2024 9:39	0	0	0	0
111	10/25/2024 9:40	0	0	0	0
112	10/25/2024 9:41	0	0	0	0
113	10/25/2024 9:42	0	0	0	0
114	10/25/2024 9:43	0	0	0	0
115	10/25/2024 9:44	0	0	0	0
116	10/25/2024 9:45	0	0	0	0
117	10/25/2024 9:46	0	0	0	0
118	10/25/2024 9:47	0	0	0	0
119	10/25/2024 9:48	0	0	0	0
120	10/25/2024 9:49	0	0	0	0
121	10/25/2024 9:50	0	0	0	0
122	10/25/2024 9:51	0	0	0	0
123	10/25/2024 9:52	0	0	0	0
124	10/25/2024 9:53	0	0	0	0
125	10/25/2024 9:54	0	0	0	0
126	10/25/2024 9:55	0	0	0	0
127	10/25/2024 9:56	0	0	0	0
128	10/25/2024 9:57	0	0	0	0
129	10/25/2024 9:58	0	0	0	0
130	10/25/2024 9:59	0	0	0	0
131	10/25/2024 10:00	0	0	0	0
132	10/25/2024 10:01	0	0	0	0
133	10/25/2024 10:02	0	0	0	0
134	10/25/2024 10:03	0	0	0	0

135	10/25/2024 10:04	0	0	0	0
136	10/25/2024 10:05	0	0	0	0
137	10/25/2024 10:06	0	0	0	0
138	10/25/2024 10:07	0	0	0	0
139	10/25/2024 10:08	0	0	0	0
140	10/25/2024 10:09	0	0	0	0
141	10/25/2024 10:10	0	0	0	0
142	10/25/2024 10:11	0	0	0	0
143	10/25/2024 10:12	0	0	0	0
144	10/25/2024 10:13	0	0	0	0
145	10/25/2024 10:14	0	0	0	0
146	10/25/2024 10:15	0	0	0	0
147	10/25/2024 10:16	0	0	0	0
148	10/25/2024 10:17	0	0	0	0
149	10/25/2024 10:18	0	0	0	0
150	10/25/2024 10:19	0	0	0	0
151	10/25/2024 10:20	0	0	0	0
152	10/25/2024 10:21	0	0	0	0
153	10/25/2024 10:22	0	0	0	0
154	10/25/2024 10:23	0	0	0	0
155	10/25/2024 10:24	0	0	0	0
156	10/25/2024 10:25	0	0	0	0
157	10/25/2024 10:26	0	0	0	0
158	10/25/2024 10:27	0	0	0	0
159	10/25/2024 10:28	0	0	0	0
160	10/25/2024 10:29	0	0	0	0
161	10/25/2024 10:30	0	0	0	0
162	10/25/2024 10:31	0	0	0	0
163	10/25/2024 10:32	0	0	0	0
164	10/25/2024 10:33	0	0	0	0
165	10/25/2024 10:34	0	0	0	0
166	10/25/2024 10:35	0	0	0	0
167	10/25/2024 10:36	0	0	0	0
168	10/25/2024 10:37	0	0	0	0
169	10/25/2024 10:38	0	0	0	0
170	10/25/2024 10:39	0	0	0	0
171	10/25/2024 10:40	0	0	0	0
172	10/25/2024 10:41	0	0	0	0
173	10/25/2024 10:42	0	0	0	0
174	10/25/2024 10:43	0	0	0	0
175	10/25/2024 10:44	0	0	0	0
176	10/25/2024 10:45	0	0	0	0
177	10/25/2024 10:46	0	0	0	0
178	10/25/2024 10:47	0	0	0	0

179	10/25/2024 10:48	0	0	0	0
180	10/25/2024 10:49	0	0	0	0
181	10/25/2024 10:50	0	0	0	0
182	10/25/2024 10:51	0	0	0	0
183	10/25/2024 10:52	0	0	0	0
184	10/25/2024 10:53	0	0	0	0
185	10/25/2024 10:54	0	0	0	0
186	10/25/2024 10:55	0	0	0	0
187	10/25/2024 10:56	0	0	0	0
188	10/25/2024 10:57	0	0	0	0
189	10/25/2024 10:58	0	0	0	0
190	10/25/2024 10:59	0	0	0	0
191	10/25/2024 11:00	0	0	0	0
192	10/25/2024 11:01	0	0	0	0
193	10/25/2024 11:02	0	0	0	0
194	10/25/2024 11:03	0	0	0	0
195	10/25/2024 11:04	0	0	0	0
196	10/25/2024 11:05	0	0	0	0
197	10/25/2024 11:06	0	0	0	0
198	10/25/2024 11:07	0	0	0	0
199	10/25/2024 11:08	0	0	0	0
200	10/25/2024 11:09	0	0	0	0
201	10/25/2024 11:10	0	0	0	0
202	10/25/2024 11:11	0	0	0	0
203	10/25/2024 11:12	0	0	0	0
204	10/25/2024 11:13	0	0	0	0
205	10/25/2024 11:14	0	0	0	0
206	10/25/2024 11:15	0	0	0	0
207	10/25/2024 11:16	0	0	0	0
208	10/25/2024 11:17	0	0	0	0
209	10/25/2024 11:18	0	0	0	0
210	10/25/2024 11:19	0	0	0	0
211	10/25/2024 11:20	0	0	0	0
212	10/25/2024 11:21	0	0	0	0
213	10/25/2024 11:22	0	0	0	0
214	10/25/2024 11:23	0	0	0	0
215	10/25/2024 11:24	0	0	0	0
216	10/25/2024 11:25	0	0	0	0
217	10/25/2024 11:26	0	0	0	0
218	10/25/2024 11:27	0	0	0	0
219	10/25/2024 11:28	0	0	0	0
220	10/25/2024 11:29	0	0	0	0
221	10/25/2024 11:30	0	0	0	0
222	10/25/2024 11:31	0	0	0	0

223	10/25/2024 11:32	0	0	0	0
224	10/25/2024 11:33	0	0	0	0
225	10/25/2024 11:34	0	0	0	0
226	10/25/2024 11:35	0	0	0	0
227	10/25/2024 11:36	0	0	0	0
228	10/25/2024 11:37	0	0	0	0
229	10/25/2024 11:38	0	0	0	0
230	10/25/2024 11:39	0	0	0	0
231	10/25/2024 11:40	0	0	0	0
232	10/25/2024 11:41	0	0	0	0
233	10/25/2024 11:42	0	0	0	0
234	10/25/2024 11:43	0	0	0	0
235	10/25/2024 11:44	0	0	0	0
236	10/25/2024 11:45	0	0	0	0
237	10/25/2024 11:46	0	0	0	0
238	10/25/2024 11:47	0	0	0	0
239	10/25/2024 11:48	0	0	0	0
240	10/25/2024 11:49	0	0	0	0
241	10/25/2024 11:50	0	0	0	0
242	10/25/2024 11:51	0	0	0	0
243	10/25/2024 11:52	0	0	0	0
244	10/25/2024 11:53	0	0	0	0
245	10/25/2024 11:54	0	0	0	0
246	10/25/2024 11:55	0	0	0	0
247	10/25/2024 11:56	0	0	0	0
248	10/25/2024 11:57	0	0	0	0
249	10/25/2024 11:58	0	0	0	0
250	10/25/2024 11:59	0	0	0	0
251	10/25/2024 12:00	0	0	0	0
252	10/25/2024 12:01	0	0	0	0
253	10/25/2024 12:02	0	0	0	0
254	10/25/2024 12:03	0	0	0	0
255	10/25/2024 12:04	0	0	0	0
256	10/25/2024 12:05	0	0	0	0
257	10/25/2024 12:06	0	0	0	0
258	10/25/2024 12:07	0	0	0	0
259	10/25/2024 12:08	0	0	0	0
260	10/25/2024 12:09	0	0	0	0
261	10/25/2024 12:10	0	0	0	0
262	10/25/2024 12:11	0	0	0	0
263	10/25/2024 12:12	0	0	0	0
264	10/25/2024 12:13	0	0	0	0
265	10/25/2024 12:14	0	0	0	0
266	10/25/2024 12:15	0	0	0	0

267	10/25/2024 12:16	0	0	0	0
268	10/25/2024 12:17	0	0	0	0
269	10/25/2024 12:18	0	0	0	0
270	10/25/2024 12:19	0	0	0	0
271	10/25/2024 12:20	0	0	0	0
272	10/25/2024 12:21	0	0	0	0
273	10/25/2024 12:22	0	0	0	0
274	10/25/2024 12:23	0	0	0	0
275	10/25/2024 12:24	0	0	0	0
276	10/25/2024 12:25	0	0	0	0
277	10/25/2024 12:26	0	0	0	0
278	10/25/2024 12:27	0	0	0	0
279	10/25/2024 12:28	0	0	0	0
280	10/25/2024 12:29	0	0	0	0
281	10/25/2024 12:30	0	0	0	0
282	10/25/2024 12:31	0	0	0	0
283	10/25/2024 12:32	0	0	0	0
284	10/25/2024 12:33	0	0	0	0
285	10/25/2024 12:34	0	0	0	0
286	10/25/2024 12:35	0	0	0	0
287	10/25/2024 12:36	0	0	0	0
288	10/25/2024 12:37	0	0	0	0
289	10/25/2024 12:38	0	0	0	0
290	10/25/2024 12:39	0	0	0	0
291	10/25/2024 12:40	0	0	0	0
292	10/25/2024 12:41	0	0	0	0
293	10/25/2024 12:42	0	0	0	0
294	10/25/2024 12:43	0	0	0	0
295	10/25/2024 12:44	0	0	0	0
296	10/25/2024 12:45	0	0	0	0
297	10/25/2024 12:46	0	0	0	0
298	10/25/2024 12:47	0	0	0	0
299	10/25/2024 12:48	0	0	0	0
300	10/25/2024 12:49	0	0	0	0
301	10/25/2024 12:50	0	0	0	0
302	10/25/2024 12:51	0	0	0	0
303	10/25/2024 12:52	0	0	0	0
304	10/25/2024 12:53	0	0	0	0
305	10/25/2024 12:54	0	0	0	0
306	10/25/2024 12:55	0	0	0	0
307	10/25/2024 12:56	0	0	0	0
308	10/25/2024 12:57	0	0	0	0
309	10/25/2024 12:58	0	0	0	0
310	10/25/2024 12:59	0	0	0	0

311	10/25/2024 13:00	0	0	0	0
312	10/25/2024 13:01	0	0	0	0
313	10/25/2024 13:02	0	0	0	0
314	10/25/2024 13:03	0	0	0	0
315	10/25/2024 13:04	0	0	0	0
316	10/25/2024 13:05	0	0	0	0
317	10/25/2024 13:06	0	0	0	0
318	10/25/2024 13:07	0	0	0	0
319	10/25/2024 13:08	0	0	0	0
320	10/25/2024 13:09	0	0	0	0
321	10/25/2024 13:10	0	0	0	0
322	10/25/2024 13:11	0	0	0	0
323	10/25/2024 13:12	0	0	0	0
324	10/25/2024 13:13	0	0	0	0
325	10/25/2024 13:14	0	0	0	0
326	10/25/2024 13:15	0	0	0	0
327	10/25/2024 13:16	0	0	0	0
328	10/25/2024 13:17	0	0	0	0
329	10/25/2024 13:18	0	0	0	0
330	10/25/2024 13:19	0	0	0	0
331	10/25/2024 13:20	0	0	0	0
332	10/25/2024 13:21	0	0	0	0
333	10/25/2024 13:22	0	0	0	0
334	10/25/2024 13:23	0	0	0	0
335	10/25/2024 13:24	0	0	0	0
336	10/25/2024 13:25	0	0	0	0
337	10/25/2024 13:26	0	0	0	0
338	10/25/2024 13:27	0	0	0	0
339	10/25/2024 13:28	0	0	0	0
340	10/25/2024 13:29	0	0	0	0
341	10/25/2024 13:30	0	0	0	0
342	10/25/2024 13:31	0	0	0	0
343	10/25/2024 13:32	0	0	0	0
344	10/25/2024 13:33	0	0	0	0
345	10/25/2024 13:34	0	0	0	0
346	10/25/2024 13:35	0	0	0	0
347	10/25/2024 13:36	0	0	0	0
348	10/25/2024 13:37	0	0	0	0
349	10/25/2024 13:38	0	0	0	0
350	10/25/2024 13:39	0	0	0	0
351	10/25/2024 13:40	0	0	0	0
352	10/25/2024 13:41	0	0	0	0
353	10/25/2024 13:42	0	0	0	0
354	10/25/2024 13:43	0	0	0	0

355	10/25/2024 13:44	0	0	0	0
356	10/25/2024 13:45	0	0	0	0
357	10/25/2024 13:46	0	0	0	0
358	10/25/2024 13:47	0	0	0	0
359	10/25/2024 13:48	0	0	0	0
360	10/25/2024 13:49	0	0	0	0
361	10/25/2024 13:50	0	0	0	0
362	10/25/2024 13:51	0	0	0	0
363	10/25/2024 13:52	0	0	0	0
364	10/25/2024 13:53	0	0	0	0
365	10/25/2024 13:54	0	0	0	0
366	10/25/2024 13:55	0	0	0	0
367	10/25/2024 13:56	0	0	0	0
368	10/25/2024 13:57	0	0	0	0
369	10/25/2024 13:58	0	0	0	0
370	10/25/2024 13:59	0	0	0	0
371	10/25/2024 14:00	0	0	0	0
372	10/25/2024 14:01	0	0	0	0
373	10/25/2024 14:02	0	0	0	0
374	10/25/2024 14:03	0	0	0	0
375	10/25/2024 14:04	0	0	0	0
376	10/25/2024 14:05	0	0	0	0
377	10/25/2024 14:06	0	0	0	0
378	10/25/2024 14:07	0	0	0	0
379	10/25/2024 14:08	0	0	0	0
380	10/25/2024 14:09	0	0	0	0
381	10/25/2024 14:10	0	0	0	0
382	10/25/2024 14:11	0	0	0	0
383	10/25/2024 14:12	0	0	0	0
384	10/25/2024 14:13	0	0	0	0
385	10/25/2024 14:14	0	0	0	0
386	10/25/2024 14:15	0	0	0	0
387	10/25/2024 14:16	0	0	0	0
388	10/25/2024 14:17	0	0	0	0
389	10/25/2024 14:18	0	0	0	0
390	10/25/2024 14:19	0	0	0	0
391	10/25/2024 14:20	0	0	0	0
392	10/25/2024 14:21	0	0	0	0
393	10/25/2024 14:22	0	0	0	0
394	10/25/2024 14:23	0	0	0	0
395	10/25/2024 14:24	0	0	0	0
396	10/25/2024 14:25	0	0	0	0
397	10/25/2024 14:26	0	0	0	0
398	10/25/2024 14:27	0	0	0	0

399	10/25/2024 14:28	0	0	0	0
400	10/25/2024 14:29	0	0	0	0
401	10/25/2024 14:30	0	0	0	0
402	10/25/2024 14:31	0	0	0	0
403	10/25/2024 14:32	0	0	0	0
404	10/25/2024 14:33	0	0	0	0
405	10/25/2024 14:34	0	0	0	0
406	10/25/2024 14:35	0	0	0	0
407	10/25/2024 14:36	0	0	0	0
408	10/25/2024 14:37	0	0	0	0
409	10/25/2024 14:38	0	0	0	0
410	10/25/2024 14:39	0	0	0	0
411	10/25/2024 14:40	0	0	0	0
412	10/25/2024 14:41	0	0	0	0
413	10/25/2024 14:42	0	0	0	0
414	10/25/2024 14:43	0	0	0	0
415	10/25/2024 14:44	0	0	0	0
416	10/25/2024 14:45	0	0	0	0
417	10/25/2024 14:46	0	0	0	0
418	10/25/2024 14:47	0	0	0	0
419	10/25/2024 14:48	0	0	0	0
420	10/25/2024 14:49	0	0	0	0
421	10/25/2024 14:50	0	0	0	0
422	10/25/2024 14:51	0	0	0	0
423	10/25/2024 14:52	0	0	0	0
424	10/25/2024 14:53	0	0	0	0
425	10/25/2024 14:54	0	0	0	0
426	10/25/2024 14:55	0	0	0	0
427	10/25/2024 14:56	0	0	0	0
428	10/25/2024 14:57	0	0	0	0
429	10/25/2024 14:58	0	0	0	0
430	10/25/2024 14:59	0	0	0	0
431	10/25/2024 15:00	0	0	0	0
432	10/25/2024 15:01	0	0	0	0
433	10/25/2024 15:02	0	0	0	0
434	10/25/2024 15:03	0	0	0	0
435	10/25/2024 15:04	0	0	0	0
436	10/25/2024 15:05	0	0	0	0
437	10/25/2024 15:06	0	0	0	0
438	10/25/2024 15:07	0	0	0	0
439	10/25/2024 15:08	0	0	0	0
440	10/25/2024 15:09	0	0	0	0
441	10/25/2024 15:10	0	0	0	0
442	10/25/2024 15:11	0	0	0	0

443	10/25/2024 15:12	0	0	0	0
444	10/25/2024 15:13	0	0	0	0
445	10/25/2024 15:14	0	0	0	0
446	10/25/2024 15:15	0	0	0	0
447	10/25/2024 15:16	0	0	0	0
448	10/25/2024 15:17	0	0	0	0
449	10/25/2024 15:18	0	0	0	0
450	10/25/2024 15:19	0	0	0	0
451	10/25/2024 15:20	0	0	0	0
452	10/25/2024 15:21	0	0	0	0
453	10/25/2024 15:22	0	0	0	0
454	10/25/2024 15:23	0	0	0	0
455	10/25/2024 15:24	0	0	0	0
456	10/25/2024 15:25	0	0	0	0
457	10/25/2024 15:26	0	0	0	0
458	10/25/2024 15:27	0	0	0	0
459	10/25/2024 15:28	0	0	0	0
460	10/25/2024 15:29	0	0	0	0
461	10/25/2024 15:30	0	0	0	0
462	10/25/2024 15:31	0	0	0	0
463	10/25/2024 15:32	0	0	0	0
464	10/25/2024 15:33	0	0	0	0
465	10/25/2024 15:34	0	0	0	0
466	10/25/2024 15:35	0	0	0	0
467	10/25/2024 15:36	0	0	0	0
468	10/25/2024 15:37	0	0	0	0
469	10/25/2024 15:38	0	0	0	0
470	10/25/2024 15:39	0	0	0	0
471	10/25/2024 15:40	0	0	0	0
472	10/25/2024 15:41	0	0	0	0
473	10/25/2024 15:42	0	0	0	0
474	10/25/2024 15:43	0	0	0	0
475	10/25/2024 15:44	0	0	0	0
476	10/25/2024 15:45	0	0	0	0
Peak		0	0	0	0
Min		0	0	0	0
Average		0	0	0	0

Upwind Dust

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,001
Test Abbreviation:,MANUAL_001
Start Date:,10/21/2024
Start Time:,11:24:28
Duration (dd:hh:mm:ss):,0:14:01:00
Log Interval (mm:ss):,15:00
Number of points:,22
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.017
,Minimum:,0.000
,Time of Minimum:,01:25:35
,Date of Minimum:,10/22/2024
,Maximum:,0.033
,Time of Maximum:,16:24:28
,Date of Maximum:,10/21/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/21/2024,11:39:28,0.018
10/21/2024,11:54:28,0.015
10/21/2024,12:09:28,0.013
10/21/2024,12:24:28,0.013
10/21/2024,12:39:28,0.014
10/21/2024,12:54:28,0.012
10/21/2024,13:09:28,0.012
10/21/2024,13:24:28,0.014
10/21/2024,13:39:28,0.012
10/21/2024,13:54:28,0.014
10/21/2024,14:09:28,0.015
10/21/2024,14:24:28,0.011
10/21/2024,14:39:28,0.018
10/21/2024,14:54:28,0.019
10/21/2024,15:09:28,0.022
10/21/2024,15:24:28,0.021
10/21/2024,15:39:28,0.026
10/21/2024,15:54:28,0.024
10/21/2024,16:09:28,0.026
10/21/2024,16:24:28,0.033
10/21/2024,16:39:28,0.023

10/22/2024,01:25:35,0.000

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,002
Test Abbreviation:,MANUAL_002
Start Date:,10/22/2024
Start Time:,08:14:59
Duration (dd:hh:mm:ss):,0:07:00:00
Log Interval (mm:ss):,15:00
Number of points:,28
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.025
,Minimum:,0.019
,Time of Minimum:,12:29:59
,Date of Minimum:,10/22/2024
,Maximum:,0.070
,Time of Maximum:,08:29:59
,Date of Maximum:,10/22/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/22/2024,08:29:59,0.070
10/22/2024,08:44:59,0.031
10/22/2024,08:59:59,0.029
10/22/2024,09:14:59,0.030
10/22/2024,09:29:59,0.031
10/22/2024,09:44:59,0.030
10/22/2024,09:59:59,0.028
10/22/2024,10:14:59,0.028
10/22/2024,10:29:59,0.029
10/22/2024,10:44:59,0.022
10/22/2024,10:59:59,0.020
10/22/2024,11:14:59,0.023
10/22/2024,11:29:59,0.023
10/22/2024,11:44:59,0.021
10/22/2024,11:59:59,0.022
10/22/2024,12:14:59,0.022
10/22/2024,12:29:59,0.019
10/22/2024,12:44:59,0.019
10/22/2024,12:59:59,0.019
10/22/2024,13:14:59,0.020
10/22/2024,13:29:59,0.025

10/22/2024,13:44:59,0.021
10/22/2024,13:59:59,0.020
10/22/2024,14:14:59,0.019
10/22/2024,14:29:59,0.021
10/22/2024,14:44:59,0.022
10/22/2024,14:59:59,0.020
10/22/2024,15:14:59,0.020

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,003
Test Abbreviation:,MANUAL_003
Start Date:,10/23/2024
Start Time:,07:15:33
Duration (dd:hh:mm:ss):,0:08:00:00
Log Interval (mm:ss):,15:00
Number of points:,32
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.017
,Minimum:,0.005
,Time of Minimum:,13:30:33
,Date of Minimum:,10/23/2024
,Maximum:,0.043
,Time of Maximum:,07:30:33
,Date of Maximum:,10/23/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/23/2024,07:30:33,0.043
10/23/2024,07:45:33,0.037
10/23/2024,08:00:33,0.035
10/23/2024,08:15:33,0.041
10/23/2024,08:30:33,0.032
10/23/2024,08:45:33,0.030
10/23/2024,09:00:33,0.027
10/23/2024,09:15:33,0.024
10/23/2024,09:30:33,0.020
10/23/2024,09:45:33,0.017
10/23/2024,10:00:33,0.016
10/23/2024,10:15:33,0.015
10/23/2024,10:30:33,0.015
10/23/2024,10:45:33,0.011
10/23/2024,11:00:33,0.010
10/23/2024,11:15:33,0.009
10/23/2024,11:30:33,0.011
10/23/2024,11:45:33,0.006
10/23/2024,12:00:33,0.009
10/23/2024,12:15:33,0.015
10/23/2024,12:30:33,0.010

10/23/2024,12:45:33,0.007
10/23/2024,13:00:33,0.011
10/23/2024,13:15:33,0.007
10/23/2024,13:30:33,0.005
10/23/2024,13:45:33,0.012
10/23/2024,14:00:33,0.007
10/23/2024,14:15:33,0.010
10/23/2024,14:30:33,0.010
10/23/2024,14:45:33,0.011
10/23/2024,15:00:33,0.008
10/23/2024,15:15:33,0.008

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,004
Test Abbreviation:,MANUAL_004
Start Date:,10/24/2024
Start Time:,07:10:41
Duration (dd:hh:mm:ss):,0:08:00:00
Log Interval (mm:ss):,15:00
Number of points:,32
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.011
,Minimum:,0.002
,Time of Minimum:,11:55:41
,Date of Minimum:,10/24/2024
,Maximum:,0.051
,Time of Maximum:,07:55:41
,Date of Maximum:,10/24/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/24/2024,07:25:41,0.030
10/24/2024,07:40:41,0.030
10/24/2024,07:55:41,0.051
10/24/2024,08:10:41,0.045
10/24/2024,08:25:41,0.015
10/24/2024,08:40:41,0.018
10/24/2024,08:55:41,0.011
10/24/2024,09:10:41,0.019
10/24/2024,09:25:41,0.015
10/24/2024,09:40:41,0.010
10/24/2024,09:55:41,0.007
10/24/2024,10:10:41,0.003
10/24/2024,10:25:41,0.004
10/24/2024,10:40:41,0.013
10/24/2024,10:55:41,0.005
10/24/2024,11:10:41,0.004
10/24/2024,11:25:41,0.004
10/24/2024,11:40:41,0.003
10/24/2024,11:55:41,0.002
10/24/2024,12:10:41,0.003
10/24/2024,12:25:41,0.002

10/24/2024,12:40:41,0.003
10/24/2024,12:55:41,0.003
10/24/2024,13:10:41,0.003
10/24/2024,13:25:41,0.005
10/24/2024,13:40:41,0.007
10/24/2024,13:55:41,0.010
10/24/2024,14:10:41,0.007
10/24/2024,14:25:41,0.003
10/24/2024,14:40:41,0.012
10/24/2024,14:55:41,0.004
10/24/2024,15:10:41,0.004

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,005
Test Abbreviation:,MANUAL_005
Start Date:,10/25/2024
Start Time:,07:48:43
Duration (dd:hh:mm:ss):,0:07:45:00
Log Interval (mm:ss):,15:00
Number of points:,31
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.003
,Minimum:,0.000
,Time of Minimum:,11:03:43
,Date of Minimum:,10/25/2024
,Maximum:,0.015
,Time of Maximum:,13:48:43
,Date of Maximum:,10/25/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/25/2024,08:03:43,0.012
10/25/2024,08:18:43,0.004
10/25/2024,08:33:43,0.003
10/25/2024,08:48:43,0.004
10/25/2024,09:03:43,0.002
10/25/2024,09:18:43,0.003
10/25/2024,09:33:43,0.001
10/25/2024,09:48:43,0.004
10/25/2024,10:03:43,0.001
10/25/2024,10:18:43,0.002
10/25/2024,10:33:43,0.002
10/25/2024,10:48:43,0.005
10/25/2024,11:03:43,0.000
10/25/2024,11:18:43,0.001
10/25/2024,11:33:43,0.003
10/25/2024,11:48:43,0.001
10/25/2024,12:03:43,0.000
10/25/2024,12:18:43,0.000
10/25/2024,12:33:43,0.000
10/25/2024,12:48:43,0.000
10/25/2024,13:03:43,0.005

10/25/2024,13:18:43,0.000
10/25/2024,13:33:43,0.000
10/25/2024,13:48:43,0.015
10/25/2024,14:03:43,0.000
10/25/2024,14:18:43,0.001
10/25/2024,14:33:43,0.001
10/25/2024,14:48:43,0.002
10/25/2024,15:03:43,0.001
10/25/2024,15:18:43,0.003
10/25/2024,15:33:43,0.005

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,006
Test Abbreviation:,MANUAL_006
Start Date:,10/28/2024
Start Time:,08:22:43
Duration (dd:hh:mm:ss):,0:06:45:00
Log Interval (mm:ss):,15:00
Number of points:,27
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.013
,Minimum:,0.000
,Time of Minimum:,10:22:43
,Date of Minimum:,10/28/2024
,Maximum:,0.077
,Time of Maximum:,13:52:43
,Date of Maximum:,10/28/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/28/2024,08:37:43,0.033
10/28/2024,08:52:43,0.038
10/28/2024,09:07:43,0.019
10/28/2024,09:22:43,0.007
10/28/2024,09:37:43,0.005
10/28/2024,09:52:43,0.002
10/28/2024,10:07:43,0.001
10/28/2024,10:22:43,0.000
10/28/2024,10:37:43,0.010
10/28/2024,10:52:43,0.018
10/28/2024,11:07:43,0.002
10/28/2024,11:22:43,0.013
10/28/2024,11:37:43,0.023
10/28/2024,11:52:43,0.002
10/28/2024,12:07:43,0.002
10/28/2024,12:22:43,0.003
10/28/2024,12:37:43,0.001
10/28/2024,12:52:43,0.000
10/28/2024,13:07:43,0.000
10/28/2024,13:22:43,0.001
10/28/2024,13:37:43,0.022

10/28/2024,13:52:43,0.077
10/28/2024,14:07:43,0.076
10/28/2024,14:22:43,0.002
10/28/2024,14:37:43,0.001
10/28/2024,14:52:43,0.004
10/28/2024,15:07:43,0.001

Downwind VOCs

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24/10/21 11:57

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-928084
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/21/2024 11:57
End	10/21/2024 17:07
Sample Per	900
Number of	20

Sensor	PID(ppm)
Sensor SN	S023030050D7
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	925
TWA Alarm	10
Measureme	Isobutylene
Calibration	10/18/2024 10:57
Peak	0.1
Min	0
Average	0.1

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/21/2024 12:12	0	0	0	0
2	10/21/2024 12:27	0	0	0	0
3	10/21/2024 12:42	0	0	0	0
4	10/21/2024 12:57	0	0	0.1	0
5	10/21/2024 13:12	0	0	0.1	0
6	10/21/2024 13:27	0	0	0.1	0
7	10/21/2024 13:42	0	0	0.1	0.1
8	10/21/2024 13:57	0	0	0.1	0
9	10/21/2024 14:12	0	0	0.1	0
10	10/21/2024 14:27	0	0.1	0.1	0
11	10/21/2024 14:42	0	0	0.1	0.1
12	10/21/2024 14:57	0	0.1	0.1	0.1
13	10/21/2024 15:12	0.1	0.1	0.1	0.1
14	10/21/2024 15:27	0.1	0.1	0.1	0.1
15	10/21/2024 15:42	0.1	0.1	0.1	0.1
16	10/21/2024 15:57	0.1	0.1	0.1	0.1
17	10/21/2024 16:12	0.1	0.1	0.2	0.1
18	10/21/2024 16:27	0.1	0.1	0.1	0.1
19	10/21/2024 16:42	0.1	0.1	0.2	0.1
20	10/21/2024 16:57	0.1	0.1	0.1	0.1
Peak		0.1	0.1	0.2	0.1
Min		0	0	0	0
Average		0	0.1	0.1	0.1

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24/10/22 08:44

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-928084
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/22/2024 8:44
End	10/22/2024 15:58
Sample Per	900
Number of	28

Sensor	PID(ppm)
Sensor SN	S023030050D7
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	925
TWA Alarm	10
Measureme	Isobutylene
Calibration	10/18/2024 10:57
Peak	0.1
Min	0
Average	0

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/22/2024 8:59	0	0	0	0
2	10/22/2024 9:14	0	0	0	0
3	10/22/2024 9:29	0	0	0	0
4	10/22/2024 9:44	0	0	0.1	0.1
5	10/22/2024 9:59	0	0	0.1	0
6	10/22/2024 10:14	0	0	0	0
7	10/22/2024 10:29	0	0	0	0
8	10/22/2024 10:44	0	0	0	0
9	10/22/2024 10:59	0	0	0.1	0
10	10/22/2024 11:14	0	0	0	0
11	10/22/2024 11:29	0	0	0.1	0
12	10/22/2024 11:44	0	0	0.1	0
13	10/22/2024 11:59	0	0	0	0
14	10/22/2024 12:14	0	0	0	0
15	10/22/2024 12:29	0	0	0.1	0
16	10/22/2024 12:44	0	0	0	0
17	10/22/2024 12:59	0	0	0	0
18	10/22/2024 13:14	0	0	0	0
19	10/22/2024 13:29	0	0	0	0
20	10/22/2024 13:44	0	0	0	0
21	10/22/2024 13:59	0	0	0	0
22	10/22/2024 14:14	0	0	0	0
23	10/22/2024 14:29	0	0	0	0
24	10/22/2024 14:44	0	0	0	0
25	10/22/2024 14:59	0	0	0	0
26	10/22/2024 15:14	0	0	0.2	0
27	10/22/2024 15:29	0	0	0	0
28	10/22/2024 15:44	0	0	0	0
Peak		0	0	0.2	0.1
Min		0	0	0	0
Average		0	0	0	0

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24/10/23 07:54

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-928084
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/23/2024 7:54
End	10/23/2024 15:35
Sample Per	900
Number of	30

Sensor	PID(ppm)
Sensor SN	S023030050D7
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	925
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/23/2024 7:54
Peak	1.2
Min	0
Average	0.5

****

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/23/2024 8:09	0	0	0.9	0
2	10/23/2024 8:24	0	0	0.1	0.1
3	10/23/2024 8:39	0.1	0.2	0.3	0.2
4	10/23/2024 8:54	0.2	0.2	0.3	0.3
5	10/23/2024 9:09	0.3	0.4	0.4	0.4
6	10/23/2024 9:24	0.4	0.5	0.6	0.6
7	10/23/2024 9:39	0.6	0.7	0.8	0.8
8	10/23/2024 9:54	0.8	0.9	1	0.9
9	10/23/2024 10:09	0.9	1	1.1	1.1
10	10/23/2024 10:24	0.5	1	1.1	0.9
11	10/23/2024 10:39	0.4	0.9	1.1	0.6
12	10/23/2024 10:54	0.6	0.9	1.1	1.1
13	10/23/2024 11:09	1.1	1.1	1.2	1.2
14	10/23/2024 11:24	1.1	1.1	1.2	1.1
15	10/23/2024 11:39	1	1.1	1.3	1.1
16	10/23/2024 11:54	1	1.1	1.1	1.1
17	10/23/2024 12:09	1	1.1	1.1	1.1
18	10/23/2024 12:24	1.1	1.1	1.2	1.1
19	10/23/2024 12:39	1	1.1	1.2	1
20	10/23/2024 12:54	0.1	0.4	1.9	0.1
21	10/23/2024 13:09	0	0	0.1	0
22	10/23/2024 13:24	0	0	0	0
23	10/23/2024 13:39	0	0	0	0
24	10/23/2024 13:54	0	0	0	0
25	10/23/2024 14:09	0	0	0	0
26	10/23/2024 14:24	0	0	0	0
27	10/23/2024 14:39	0	0	0	0
28	10/23/2024 14:54	0	0	0	0
29	10/23/2024 15:09	0	0	0	0
30	10/23/2024 15:24	0	0	0	0
Peak		1.1	1.1	1.9	1.2
Min		0	0	0	0
Average		0.4	0.5	0.6	0.5

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24/10/24 07:44

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-928084
Unit Firmwa	V2.22A

Running Mo	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/24/2024 7:44
End	10/24/2024 15:40
Sample Per	900
Number of	31

Sensor	PID(ppm)
Sensor SN	S023030050D7
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	925
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/24/2024 7:31
Peak	0
Min	0
Average	0

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/24/2024 7:59	0	0	0	0
2	10/24/2024 8:14	0	0	0	0
3	10/24/2024 8:29	0	0	0	0
4	10/24/2024 8:44	0	0	0	0
5	10/24/2024 8:59	0	0	0	0
6	10/24/2024 9:14	0	0	0	0
7	10/24/2024 9:29	0	0	0	0
8	10/24/2024 9:44	0	0	0	0
9	10/24/2024 9:59	0	0	0	0
10	10/24/2024 10:14	0	0	0	0
11	10/24/2024 10:29	0	0	0	0
12	10/24/2024 10:44	0	0	0	0
13	10/24/2024 10:59	0	0	0	0
14	10/24/2024 11:14	0	0	0	0
15	10/24/2024 11:29	0	0	0	0
16	10/24/2024 11:44	0	0	0	0
17	10/24/2024 11:59	0	0	0	0
18	10/24/2024 12:14	0	0	0	0
19	10/24/2024 12:29	0	0	0	0
20	10/24/2024 12:44	0	0	0	0
21	10/24/2024 12:59	0	0	0	0
22	10/24/2024 13:14	0	0	0	0
23	10/24/2024 13:29	0	0	0	0
24	10/24/2024 13:44	0	0	0	0
25	10/24/2024 13:59	0	0	0	0
26	10/24/2024 14:14	0	0	0	0
27	10/24/2024 14:29	0	0	0	0
28	10/24/2024 14:44	0	0	0	0
29	10/24/2024 14:59	0	0	0	0
30	10/24/2024 15:14	0	0	0	0
31	10/24/2024 15:29	0	0	0	0
Peak		0	0	0	0
Min		0	0	0	0
Average		0	0	0	0

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24/10/25 08:10

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-928084
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Power Down

Site ID	RAE00000
User ID	USER0000

Begin	10/25/2024 8:10
End	10/25/2024 16:09
Sample Per	900
Number of	31

Sensor	PID(ppm)
Sensor SN	S023030050D7
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	925
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/25/2024 8:09
Peak	0
Min	0
Average	0

****

Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/25/2024 8:25	0	0	0.2	0
2	10/25/2024 8:40	0	0	0	0
3	10/25/2024 8:55	0	0	0	0
4	10/25/2024 9:10	0	0	0	0
5	10/25/2024 9:25	0	0	0	0
6	10/25/2024 9:40	0	0	0	0
7	10/25/2024 9:55	0	0	0	0
8	10/25/2024 10:10	0	0	0	0
9	10/25/2024 10:25	0	0	0	0
10	10/25/2024 10:40	0	0	0	0
11	10/25/2024 10:55	0	0	0	0
12	10/25/2024 11:10	0	0	0	0
13	10/25/2024 11:25	0	0	0	0
14	10/25/2024 11:40	0	0	0	0
15	10/25/2024 11:55	0	0	0	0
16	10/25/2024 12:10	0	0	0	0
17	10/25/2024 12:25	0	0	0	0
18	10/25/2024 12:40	0	0	0	0
19	10/25/2024 12:55	0	0	0	0
20	10/25/2024 13:10	0	0	0	0
21	10/25/2024 13:25	0	0	0	0
22	10/25/2024 13:40	0	0	0	0
23	10/25/2024 13:55	0	0	0	0
24	10/25/2024 14:10	0	0	0	0
25	10/25/2024 14:25	0	0	0	0
26	10/25/2024 14:40	0	0	0	0
27	10/25/2024 14:55	0	0	0	0
28	10/25/2024 15:10	0	0	0	0
29	10/25/2024 15:25	0	0	0	0
30	10/25/2024 15:40	0	0	0	0
31	10/25/2024 15:55	0	0	0	0
Peak		0	0	0.2	0
Min		0	0	0	0
Average		0	0	0	0

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24/10/28 08:56

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Summary

Unit Name	MiniRAE 3000 +(PGM-7320)
Unit SN	592-928084
Unit Firmwa	V2.22A

Running Mc	Hygiene Mode
Datalog Mo	Auto
Diagnostic	No
Stop Reaso	Battery Low

Site ID	RAE00000
User ID	USER0000

Begin	10/28/2024 8:56
End	10/28/2024 15:16
Sample Per	900
Number of	25

Sensor	PID(ppm)
Sensor SN	S023030050D7
Measure Ty	Min; Avg; Max; Real
Span	100
Span 2	1000
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	925
TWA Alarm	5
Measureme	Isobutylene
Calibration	10/28/2024 8:32
Peak	0.1
Min	0
Average	0

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Datalog

Index	Date/Time	PID(ppm) (Min)	PID(ppm) (Avg)	PID(ppm) (Max)	PID(ppm) (Real)
1	10/28/2024 9:11	0	0	0	0
2	10/28/2024 9:26	0	0	0	0
3	10/28/2024 9:41	0	0	0	0
4	10/28/2024 9:56	0	0	0	0
5	10/28/2024 10:11	0	0	0	0
6	10/28/2024 10:26	0	0	0	0
7	10/28/2024 10:41	0	0	0	0
8	10/28/2024 10:56	0	0	0	0
9	10/28/2024 11:11	0	0	0	0
10	10/28/2024 11:26	0	0	0	0
11	10/28/2024 11:41	0	0	0	0
12	10/28/2024 11:56	0	0	0.1	0
13	10/28/2024 12:11	0	0.1	0.1	0.1
14	10/28/2024 12:26	0.1	0.1	0.1	0.1
15	10/28/2024 12:41	0.1	0.1	0.1	0.1
16	10/28/2024 12:56	0.1	0.1	0.1	0.1
17	10/28/2024 13:11	0.1	0.1	0.1	0.1
18	10/28/2024 13:26	0.1	0.1	0.1	0.1
19	10/28/2024 13:41	0	0	0.1	0
20	10/28/2024 13:56	0	0	0	0
21	10/28/2024 14:11	0	0	0.1	0.1
22	10/28/2024 14:26	0	0.1	0.1	0.1
23	10/28/2024 14:41	0	0.1	0.1	0.1
24	10/28/2024 14:56	0	0	0.1	0
25	10/28/2024 15:11	0	0	0	0
Peak		0.1	0.1	0.1	0.1
Min		0	0	0	0
Average		0	0	0	0

Downwind Dust

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530142511
Test ID:,001
Test Abbreviation:,MANUAL_001
Start Date:,10/21/2024
Start Time:,11:31:51
Duration (dd:hh:mm:ss):,0:13:26:00
Log Interval (mm:ss):,15:00
Number of points:,21
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.025
,Minimum:,0.000
,Time of Minimum:,00:58:32
,Date of Minimum:,10/22/2024
,Maximum:,0.049
,Time of Maximum:,11:46:51
,Date of Maximum:,10/21/2024

Calibration,Sensor:,AEROSOL
,Cal. date,12/15/2023

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/21/2024,11:46:51,0.049
10/21/2024,12:01:51,0.044
10/21/2024,12:16:51,0.032
10/21/2024,12:31:51,0.026
10/21/2024,12:46:51,0.018
10/21/2024,13:01:51,0.021
10/21/2024,13:16:51,0.031
10/21/2024,13:31:51,0.015
10/21/2024,13:46:51,0.021
10/21/2024,14:01:51,0.033
10/21/2024,14:16:51,0.012
10/21/2024,14:31:51,0.017
10/21/2024,14:46:51,0.016
10/21/2024,15:01:51,0.023
10/21/2024,15:16:51,0.024
10/21/2024,15:31:51,0.027
10/21/2024,15:46:51,0.024
10/21/2024,16:01:51,0.029
10/21/2024,16:16:51,0.030
10/21/2024,16:31:51,0.036
10/22/2024,00:58:32,0.000

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530142511
Test ID:,002
Test Abbreviation:,MANUAL_002
Start Date:,10/22/2024
Start Time:,08:17:42
Duration (dd:hh:mm:ss):,0:07:00:00
Log Interval (mm:ss):,15:00
Number of points:,28
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.022
,Minimum:,0.017
,Time of Minimum:,10:47:42
,Date of Minimum:,10/22/2024
,Maximum:,0.049
,Time of Maximum:,08:32:42
,Date of Maximum:,10/22/2024

Calibration,Sensor:,AEROSOL
,Cal. date,12/15/2023

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/22/2024,08:32:42,0.049
10/22/2024,08:47:42,0.027
10/22/2024,09:02:42,0.026
10/22/2024,09:17:42,0.026
10/22/2024,09:32:42,0.026
10/22/2024,09:47:42,0.024
10/22/2024,10:02:42,0.023
10/22/2024,10:17:42,0.021
10/22/2024,10:32:42,0.025
10/22/2024,10:47:42,0.017
10/22/2024,11:02:42,0.017
10/22/2024,11:17:42,0.023
10/22/2024,11:32:42,0.021
10/22/2024,11:47:42,0.019
10/22/2024,12:02:42,0.020
10/22/2024,12:17:42,0.018
10/22/2024,12:32:42,0.020
10/22/2024,12:47:42,0.022
10/22/2024,13:02:42,0.018
10/22/2024,13:17:42,0.019
10/22/2024,13:32:42,0.019

10/22/2024,13:47:42,0.019
10/22/2024,14:02:42,0.019
10/22/2024,14:17:42,0.017
10/22/2024,14:32:42,0.018
10/22/2024,14:47:42,0.028
10/22/2024,15:02:42,0.018
10/22/2024,15:17:42,0.024

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530193922
Test ID:,003
Test Abbreviation:,MANUAL_003
Start Date:,10/23/2024
Start Time:,07:15:33
Duration (dd:hh:mm:ss):,0:08:00:00
Log Interval (mm:ss):,15:00
Number of points:,32
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.017
,Minimum:,0.005
,Time of Minimum:,13:30:33
,Date of Minimum:,10/23/2024
,Maximum:,0.043
,Time of Maximum:,07:30:33
,Date of Maximum:,10/23/2024

Calibration,Sensor:,AEROSOL
,Cal. date,08/16/2024

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/23/2024,07:30:33,0.043
10/23/2024,07:45:33,0.037
10/23/2024,08:00:33,0.035
10/23/2024,08:15:33,0.041
10/23/2024,08:30:33,0.032
10/23/2024,08:45:33,0.030
10/23/2024,09:00:33,0.027
10/23/2024,09:15:33,0.024
10/23/2024,09:30:33,0.020
10/23/2024,09:45:33,0.017
10/23/2024,10:00:33,0.016
10/23/2024,10:15:33,0.015
10/23/2024,10:30:33,0.015
10/23/2024,10:45:33,0.011
10/23/2024,11:00:33,0.010
10/23/2024,11:15:33,0.009
10/23/2024,11:30:33,0.011
10/23/2024,11:45:33,0.006
10/23/2024,12:00:33,0.009
10/23/2024,12:15:33,0.015
10/23/2024,12:30:33,0.010

10/23/2024,12:45:33,0.007
10/23/2024,13:00:33,0.011
10/23/2024,13:15:33,0.007
10/23/2024,13:30:33,0.005
10/23/2024,13:45:33,0.012
10/23/2024,14:00:33,0.007
10/23/2024,14:15:33,0.010
10/23/2024,14:30:33,0.010
10/23/2024,14:45:33,0.011
10/23/2024,15:00:33,0.008
10/23/2024,15:15:33,0.008

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530142511
Test ID:,005
Test Abbreviation:,MANUAL_005
Start Date:,10/24/2024
Start Time:,07:03:23
Duration (dd:hh:mm:ss):,0:08:00:00
Log Interval (mm:ss):,15:00
Number of points:,32
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.008
,Minimum:,0.003
,Time of Minimum:,10:18:23
,Date of Minimum:,10/24/2024
,Maximum:,0.028
,Time of Maximum:,07:18:23
,Date of Maximum:,10/24/2024

Calibration,Sensor:,AEROSOL
,Cal. date,12/15/2023

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/24/2024,07:18:23,0.028
10/24/2024,07:33:23,0.024
10/24/2024,07:48:23,0.019
10/24/2024,08:03:23,0.015
10/24/2024,08:18:23,0.012
10/24/2024,08:33:23,0.014
10/24/2024,08:48:23,0.010
10/24/2024,09:03:23,0.011
10/24/2024,09:18:23,0.010
10/24/2024,09:33:23,0.008
10/24/2024,09:48:23,0.007
10/24/2024,10:03:23,0.005
10/24/2024,10:18:23,0.003
10/24/2024,10:33:23,0.008
10/24/2024,10:48:23,0.004
10/24/2024,11:03:23,0.004
10/24/2024,11:18:23,0.005
10/24/2024,11:33:23,0.006
10/24/2024,11:48:23,0.004
10/24/2024,12:03:23,0.005
10/24/2024,12:18:23,0.005

10/24/2024,12:33:23,0.005
10/24/2024,12:48:23,0.005
10/24/2024,13:03:23,0.004
10/24/2024,13:18:23,0.005
10/24/2024,13:33:23,0.008
10/24/2024,13:48:23,0.008
10/24/2024,14:03:23,0.009
10/24/2024,14:18:23,0.005
10/24/2024,14:33:23,0.006
10/24/2024,14:48:23,0.004
10/24/2024,15:03:23,0.006

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530142511
Test ID:,006
Test Abbreviation:,MANUAL_006
Start Date:,10/25/2024
Start Time:,07:42:37
Duration (dd:hh:mm:ss):,0:08:00:00
Log Interval (mm:ss):,15:00
Number of points:,32
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.017
,Minimum:,0.001
,Time of Minimum:,10:57:37
,Date of Minimum:,10/25/2024
,Maximum:,0.239
,Time of Maximum:,08:57:37
,Date of Maximum:,10/25/2024

Calibration,Sensor:,AEROSOL
,Cal. date,12/15/2023

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/25/2024,07:57:37,0.032
10/25/2024,08:12:37,0.016
10/25/2024,08:27:37,0.006
10/25/2024,08:42:37,0.010
10/25/2024,08:57:37,0.239
10/25/2024,09:12:37,0.020
10/25/2024,09:27:37,0.026
10/25/2024,09:42:37,0.019
10/25/2024,09:57:37,0.041
10/25/2024,10:12:37,0.014
10/25/2024,10:27:37,0.002
10/25/2024,10:42:37,0.003
10/25/2024,10:57:37,0.001
10/25/2024,11:12:37,0.002
10/25/2024,11:27:37,0.020
10/25/2024,11:42:37,0.011
10/25/2024,11:57:37,0.021
10/25/2024,12:12:37,0.009
10/25/2024,12:27:37,0.008
10/25/2024,12:42:37,0.001
10/25/2024,12:57:37,0.001

10/25/2024,13:12:37,0.002
10/25/2024,13:27:37,0.004
10/25/2024,13:42:37,0.008
10/25/2024,13:57:37,0.004
10/25/2024,14:12:37,0.003
10/25/2024,14:27:37,0.003
10/25/2024,14:42:37,0.004
10/25/2024,14:57:37,0.004
10/25/2024,15:12:37,0.007
10/25/2024,15:27:37,0.007
10/25/2024,15:42:37,0.009

TrakPro Version 4.70 ASCII Data File

Model:,DustTrak II
Model Number:,8530
Serial Number:,8530142511
Test ID:,007
Test Abbreviation:,MANUAL_007
Start Date:,10/28/2024
Start Time:,08:28:46
Duration (dd:hh:mm:ss):,0:06:45:00
Log Interval (mm:ss):,15:00
Number of points:,27
Notes:,

Statistics,Channel:,AEROSOL
,Units:,mg/m^3
,Average:,0.004
,Minimum:,0.000
,Time of Minimum:,12:43:46
,Date of Minimum:,10/28/2024
,Maximum:,0.031
,Time of Maximum:,08:43:46
,Date of Maximum:,10/28/2024

Calibration,Sensor:,AEROSOL
,Cal. date,12/15/2023

Date,Time,AEROSOL
MM/dd/yyyy,hh:mm:ss,mg/m^3
10/28/2024,08:43:46,0.031
10/28/2024,08:58:46,0.019
10/28/2024,09:13:46,0.011
10/28/2024,09:28:46,0.007
10/28/2024,09:43:46,0.004
10/28/2024,09:58:46,0.002
10/28/2024,10:13:46,0.001
10/28/2024,10:28:46,0.001
10/28/2024,10:43:46,0.001
10/28/2024,10:58:46,0.001
10/28/2024,11:13:46,0.001
10/28/2024,11:28:46,0.002
10/28/2024,11:43:46,0.001
10/28/2024,11:58:46,0.003
10/28/2024,12:13:46,0.002
10/28/2024,12:28:46,0.001
10/28/2024,12:43:46,0.000
10/28/2024,12:58:46,0.001
10/28/2024,13:13:46,0.001
10/28/2024,13:28:46,0.001
10/28/2024,13:43:46,0.001

10/28/2024,13:58:46,0.001
10/28/2024,14:13:46,0.001
10/28/2024,14:28:46,0.002
10/28/2024,14:43:46,0.002
10/28/2024,14:58:46,0.002
10/28/2024,15:13:46,0.003

Appendix C

Utility Report

JOB SUMMARY REPORT

Order Number:	Work Order #702397	**Job Date:**	Oct 21, 2024 4:32:00 PM
Customer:	8557 ARCADIS US INC	**Billing Address:**	ARCADIS USHIGHLANDS RANCH 630 PLAZA DR STE 200 HIGHLANDS RANCH CO 80129 United States

JOB DETAILS

Jobsite Location	2 Bayview Avenue, Oyster Bay, New York, 11771
Work Order Number	Work Order #702397
Job Number	
PO Number	30218263.02

GPRS Project Manager: Vincent Anello

Thank you for using GPRS on your project. We appreciate the opportunity to work with you. If you have questions regarding the results of this scanning, please contact the lead GPRS project manager on this project.

EQUIPMENT USED

The following equipment was used on this project:

- **Underground GPR Antenna:** This GPR Antenna uses frequencies ranging from 250 MHz to 450 MHz and is mounted in a stroller frame that rolls over the surface. Data is displayed on a screen and marked in the field in real time. The surface needs to be reasonably smooth and unobstructed to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the efficacy of GPR. The total effective scan depth can be as much as 8’ or more with this antenna but can vary widely depending on the soil conditions and composition. Some soil types, such as clay, may limit maximum depths to 3’ or less. As depth increases, targets must be larger to be detected, and non-metallic targets can be challenging to locate. The depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- **EM Pipe Locator:** Electromagnetic Pipe and Cable Locator. Detects electromagnetic fields. Used to actively trace conductive pipes and tracer wires, or passively detect power and radio signals traveling along conductive pipes and utilities. For more information, please visit: Link
- **GPS:** This handheld unit offers accuracy down to 4 inches; however, the accuracy achieved will depend on the satellite environment at the time of collection and is not considered survey-grade. Features can be collected as points, lines, or areas and then exported as a KML/KMZ or overlaid on a CAD drawing. For more information, please visit: Link

JOB SUMMARY REPORT

WORK PERFORMED

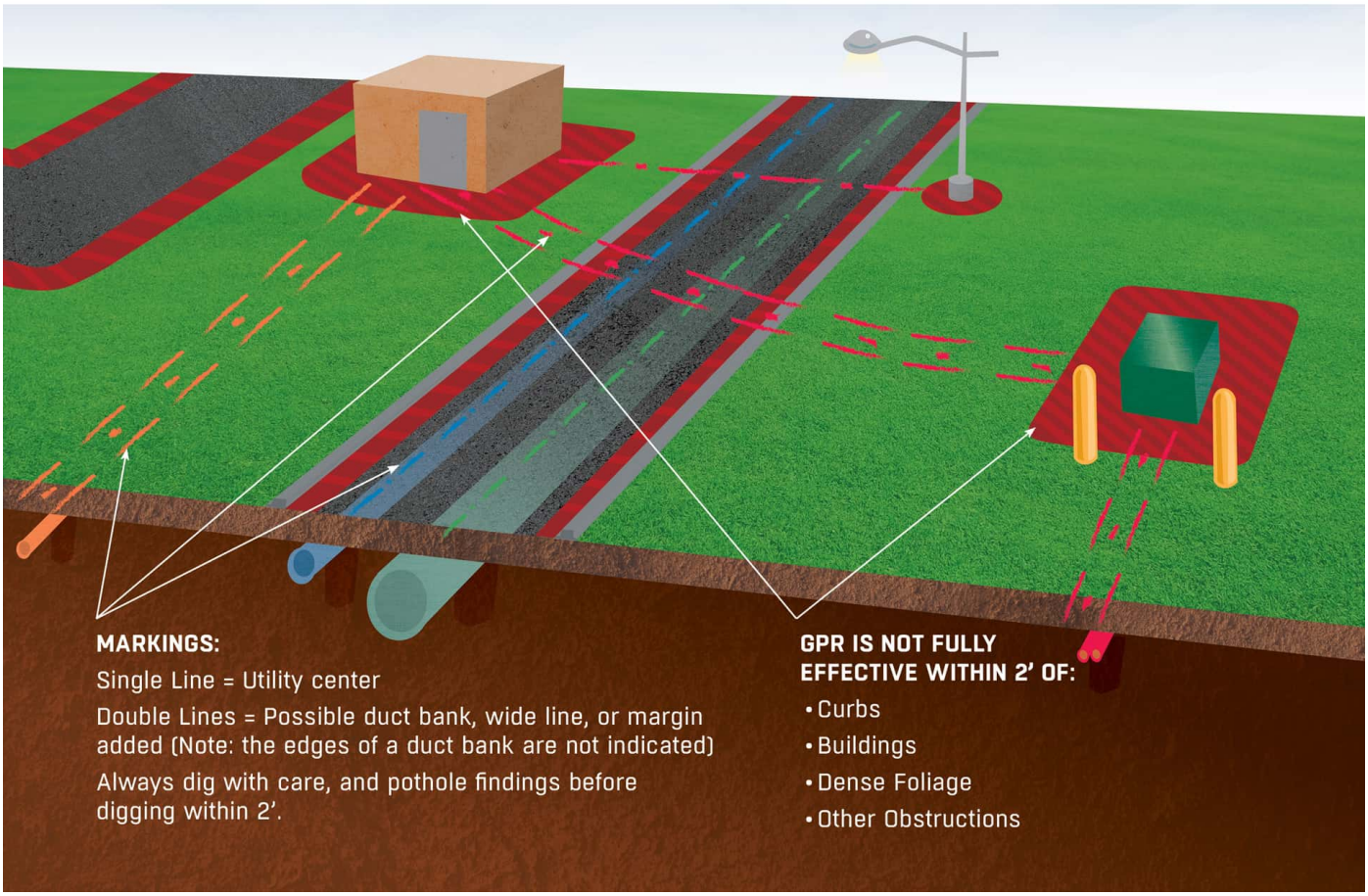
UNDERGROUND UTILITY	
Client Provided Drawings	No
Client completed 811 locate request	Yes
Scope of Work	Scan area around 10 soil borings with 10’ radius when possible for all locatable utilities.
Soil Borings (qty)	10
Approximate GPR Effective Depth (ft)	9
Utilities Located	- Storm Sewer
Marking Medium	- Spray Paint
Results Notes	GPR and EM scan locate and mark out utilities for soil borings. No as built drawings available. Conducted EM passive scans around locations as directed on site. No conflicts were detected detected. GPR was used to locate and mark storm lines. Storm lines were marked in green on surface.

JOB SUMMARY REPORT

SUPPLEMENTAL INFORMATION

COMMON UTILITY LOCATING LIMITATIONS

There are many limitations to locating utilities, due to a variety of factors, with several more common examples illustrated here.



JOBSITE IMAGES

Jobsite Photo #1

Jobsite Photo #2

Jobsite Photo #3

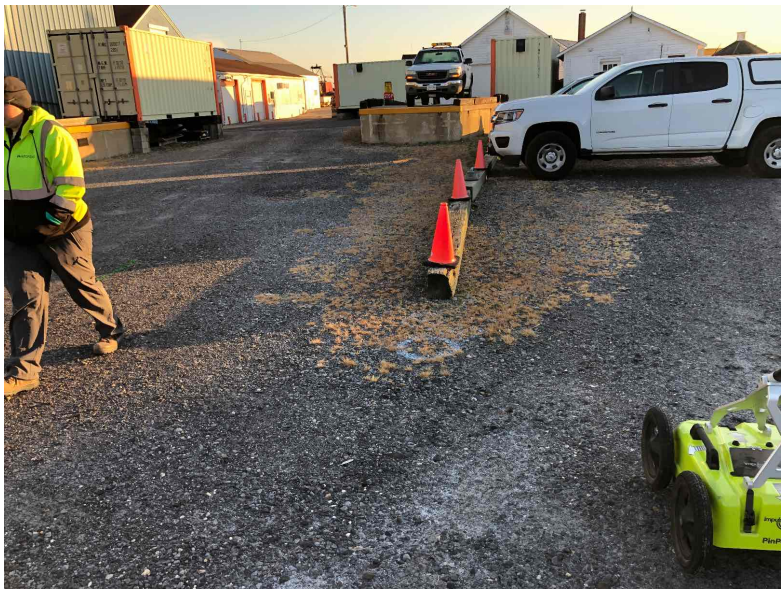
Jobsite Photo #4

Jobsite Photo #5

Jobsite Photo #6

Jobsite Photo #7

Jobsite Photo #8



Jobsite Photo #9

Jobsite Photo #10

JOB SUMMARY REPORT

Jobsite Photo #11

CONTACT / SIGNATURE INFORMATION

Contact Information

Contact Name	STEFAN BAGNATO	**Email**	stefan.bagnato@arcadis.com

TERMS & CONDITIONS

http://www.gprsinc.com/termsandconditions.html

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6. PRIVATE UTILITY LOCATING IS NEVER A REPLACEMENT FOR ONE CALL/811 SERVICES. STATE LAW REQUIRES 811 TO BE CALLED PRIOR TO ANY AND ALL EXCAVATION ACTIVITIES.

LEGEND

STORM

0' 10' 20' 30' 40' 50'

811 Know what's below. Call before you dig.

GPRS IS NOT AFFILIATED WITH 811 BUT DOES RECOMMEND THAT THE SERVICE IS USED ON EVERY PROJECT IN ADDITION TO OUR OWN. SEE NOTE #6 ABOVE.

FOR INFORMATION ONLY

GPRS FINDINGS MAP

PREPARED FOR:
ARCADIS US INC

LOCATION:
2 BAYVIEW AVENUE
2 BAYVIEW AVENUE
OYSTER BAY, NY

PROJECT MANAGER:
VINCENT ANELLO
VINCENT.ANELLO@GPRSINC.COM

DATE	2024 OCT 21		
DRAWING NO.	1	REV.	0

702397

- AIR_COMPRESSOR
- AIR_CONTINUES
- AIR_EOI
- AIR_MANHOLE
- AIR_MISC
- AIR_PUMP
- AIR_RISER
- CHEM_AST
- CHEM_CONTINUES
- CHEM_EOI
- CHEM_MANHOLE
- CHEM_MISC
- CHEM_PUMP
- CHEM_TANK
- CHEM_VALVE
- COMM_BOX
- COMM_CAMERA
- COMM_CONTINUES
- COMM_EOI
- COMM_MANHOLE
- COMM_MISC
- COMM_PEDESTAL
- COMM_POLE
- COMM_VAULT
- LD_HYDRANT LEAK
- LD_MAIN BREAK
- LD_SERVICE LEAK
- LD_VALVE LEAK
- ELEC_BOX
- ELEC_CABINET
- ELEC_CONTINUES
- ELEC_EOI
- ELEC_EQUIPMENT
- ELEC_LANDSCAPELIGHT
- ELEC_MANHOLE
- ELEC_METER
- ELEC_MISC
- ELEC_PANEL
- ELEC_POWERPOLE
- ELEC_SIGN
- ELEC_SITELIGHT
- ELEC_TRANSFORMER
- ELEC_UTILITYPOLE
- ELEC_VAULT
- FIRE_BACKFLOWPREVENTOR
- FIRE_CONTINUES
- FIRE_EOI
- FIRE_HYDRANT
- FIRE_MANHOLE
- FIRE_METER
- FIRE_MISC
- FIRE_POSTINDICATORVALVE
- FIRE_RISER
- FIRE_VALVE
- FUEL_AST
- FUEL_CONTINUES
- FUEL_EOI
- FUEL_MANHOLE
- FUEL_MISC
- FUEL_PUMP
- FUEL_RISER
- FUEL_UST
- FUEL_VALVE
- FUEL_VAULT
- FUEL_VENT
- GAS_AST
- GAS_CONTINUES
- GAS_EOI
- GAS_MANHOLE
- GAS_METER
- GAS_MISC
- GAS_PUMP
- GAS_RISER
- GAS_UST
- GAS_VALVE
- GAS_VAULT
- GAS_VENT
- IRR_BACKFLOWPREVENTOR
- IRR_CONTINUES
- IRR_CONTROL VALVE
- IRR_EOI
- IRR_MISC
- IRR_RISER
- IRR_SPRINKLER
- MISC_CONTINUES
- MISC_DEPTH
- MISC_EOI
- MISC_MANHOLE
- MISC_POINT
- MISC_VALVE
- OIL_CONTINUES
- OIL_EOI
- OIL_MANHOLE
- OIL_MISC
- OIL_PUMP
- OIL_RISER
- OIL_TANK
- OIL_UST
- OIL_VALVE
- OIL_VAULT
- OIL_VENT
- SAN_CLEANOUT
- SAN_CONTINUES
- SAN_EOI
- SAN_GREASETRAP
- SAN_INVERT
- SAN_LIFTSTATION
- SAN_MANHOLE
- SAN_MARKER
- SAN_MISC
- SAN_SEPTICTANK
- SAN_VAULT
- SAN_VENT
- STEAM_CONTINUES
- STEAM_EOI
- STEAM_MANHOLE
- STEAM_VALVE
- STRM_CATCHBASINROUND
- STRM_CATCHBASINSQUARE
- STRM_CLEANOUT
- STRM_CONTINUES
- STRM_ENDPIPE
- STRM_EOI
- STRM_LIFTSTATION
- STRM_MANHOLE
- STRM_MISC
- STRM_ROOFDRAIN
- STRM_TRENCHDRAIN
- STRM_UST
- STRM_VAULT
- STRM_VENT
- STRM_YARDBASIN
- TRAF_BOX
- TRAF_CABINET
- TRAF_CONTINUES
- TRAF_EOI
- TRAF_MANHOLE
- TRAF_MISC
- TRAF_PARKINGMETER
- TRAF_POLE
- TRAF_SIGN
- TRAF_SIGNAL
- TRAF_STREETLIGHT
- TREE_CONIFEROUS
- TREE_DECIDUOUS
- UNKN_CONTINUES
- UNKN_EOI
- UNKN_MANHOLE
- UNKN_MISC
- UNKN_VALVE
- WTR_BACKFLOWPREVENTOR
- WTR_CONTINUES
- WTR_EOI
- WTR_HYDRANT
- WTR_MANHOLE
- WTR_METER
- WTR_MISC
- WTR_POSTINDICATORVALVE
- WTR_RISER
- WTR_VALVE
- WTR_WELLHEAD
- BUILDING CORNER
- FLAGPOLE
- GRAVE
- GRAVE
- HEADSTONE NO GRAVE
- MAILBOX
- POST
- PROPOSED BY OTHERS
- SATELLITE
- SIGN
- SOIL BORING MARKER

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LEGEND

STORM

811 Know what's below. Call before you dig.

GPRS IS NOT AFFILIATED WITH 811 BUT DOES RECOMMEND THAT THE SERVICE IS USED ON EVERY PROJECT IN ADDITION TO OUR OWN. SEE NOTE #6 ABOVE.

FOR INFORMATION ONLY

GPRS FINDINGS MAP

PREPARED FOR:
ARCADIS US INC

LOCATION:
2 BAYVIEW AVENUE
2 BAYVIEW AVENUE
OYSTER BAY, NY

PROJECT MANAGER:
VINCENT ANELLO
VINCENT.ANELLO@GPRSINC.COM

DATE	2024 OCT 21		
DRAWING NO.	2	REV.	0

Appendix D

Boring and Well Construction Logs

Boring Log

PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** Direct Push, 5' Macrocore
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller/Installation Cascade Environmental	**ELEVATION GROUND WATER**
Boring DPT-1	**DATE** 10/23/2024
NAME OF DRILLER T. MCNally	**ELEVATION TOP OF CASING** +7.74
DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 86 %
TOTAL DEPTH (FT) 25	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID (ppm)
5		0-5' Fill, soft cleared via vac truck	100	
10		0-0.3' dark Grey very fine to medium SAND with some Silt, little fine to coarse sub angular Gravel, moist to wet, no odor 0.3-0.6' Black SILT, little very fine to fine Sand, Organics, trace fine Gravel, slight petroleum odor, wet, soft 0.6-3.0' Black SILT and Organics, Organic like odor, moist, Peat	60	0 0.8 0.1 0.1 0.5 0.2
15		0-0.5' SILT and Organics, little fine Gravel, wet, soft 0.5-2.8' dark Grey very fine to coarse SAND with fine to coarse sub angular to rounded Gravel, trace Silt, stiff, wet, no odor 2.8-3.8' reddish Brown fine to coarse sub angular gravel, some fine to coarse Sand, little Silt, stiff, wet, no odor 3.8-4' reddish Brown SILT, some fine Sand, trace fine subangular gravel, no odor	80	0 0 0 0 0 0 0 0
20		0-1.3' dark Grey very fine to coarse SAND, trace fine subangular fine Gravel, Silt, wet, slight organic odor 1.3-4.8' reddish Brown fine to coarse SAND, some fine to coarse subangular to rounded Gravel, little Silt, wet, very dense, slight organic Odor	96	0 0 0 0 0 0 0 0
25		0-3.6' reddish Brown fine to coarse SAND, some fine to coarse subangular to rounded Gravel, little Silt, wet, very dense, slight organic Odor 3.6-4.8' light Brown very fine SAND, with some Silt (deposited primarily in lenses), trace Clay seams, wet, no odor	96	0 0 0 0 0 0 0 0 0

Abbreviations
' - feet, " - Inches

Boring Log

PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** Direct Push, 5' Macrocore
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller/Installation Cascade Environmental	**ELEVATION GROUND WATER**
Boring DPT-2	**DATE** 10/23/2024
NAME OF DRILLER T. MCNally	**ELEVATION TOP OF CASING** +7.12
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 90 %
TOTAL DEPTH (FT) 25	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID (ppm)
5		Fill	100	0.0
10		0-0.4' Grey fine to coarse subangular to subrounded GRAVEL, some medium to coarse Sand, wet, no odor 0.4-0.9' dark Grey fine ot coarse SAND, some fine to coarse subangular to rounded Gravel, wet, slight petroleum odor 0.9-1.5' Black SILT and Organics, wet, slight petroleum odor, PEAT 1.5-1.8' Black medium to coarse SAND, some fine to coarse subrounded to rounded Gravel, wet, strong petroleum odor, no staining 1.8-3.7' Black SILT and Organics, wet, slight petroleum odor, slight organic ordor, no staining 3.7-4' dark Grey SILT with some Sand, Organics, trace Clay, wet, sulfur like odor	80	0.1 0.3 3.1 4.5 14.7 7.1 1.8 0.8
15		0-1.6' dark Grey very fine to fine SAND, some fine to coarse subangular to rounded Gravel, trace Silt, wet, slight petroleum odor 1.6-3.8' Grey very fine to fine SAND, fine to coarse subangular to rounded Gravel, dense, wet, no odor 3.8-4.0' Grey very fine to fine SAND, fine to coarse subangular to rounded Gravel, dense, wet, slight organic odor	80	0.0 0.0 1.0 0.4 0.2 0.1 0.1 0.0
20		0-2.3' reddish brown fine to coarse SAND, some fine to coarse subangular to rounded Gravel, trace Silt, wet, no odor, dense 2.3-3.0' reddish Brown fine to coarse subrounded Gravel,some fine to coarse Sand, trace cobbles, wet, slight organic odor 3.0-3.9' Grey fine to coarse SAND, some fine to coarse angular to rounded Gravel, shell debris, little Silt, wet, dense, no odor 3.9-4.8' Grey fine to coarse SAND, trace fine subrounded Gravel, medium dense, wet, no odor	96	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
25		0-3' reddish Brown fine to coarse SAND, some fine to coarse subrounded Gravel, trace Silt, wet, very dense, orange staining, no odor 3-4.8' reddish Brown with orange staining very fine SAND, someSilt, trace coarse Sand, Clay, wet, no odor	96	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Abbreviations
' - feet, " - Inches

ARCADIS

Boring: DPT-3

Boring Log

SHEET 1 OF 2

PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** Direct Push, 5' Macrocore
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller Cascade Environmental	**ELEVATION GROUND WATER**
Boring DPT-3	**DATE** 10/22/2024
NAME OF DRILLER T. MCNally	**ELEVATION TOP OF CASING** +6.84
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 84 %
TOTAL DEPTH (FT) 22	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
5		0-5' Fill, soft cleared via vac truck	100	0.0	
10		5-6' Brown with orange staining fine to coarse subrounded GRAVEL, some fine to coarse Sand, slight organic odor, wet 6-7' dark Grey very fine to medium SAND, some coarse Sand, fine to coarse subangular to subrounded Gravel, slight organic odor, wet 7-8' dark Grey to Black very fine to fine SAND, som Clay, increasing with depth, slight petroleum odor, wet	60	0.0 0.0 0.0 0.0 0.2 0.0	
15		10-13.5' Orangish Grey with dark Grey staining fine to coarse subangular to subrounded GRAVEL, some medium to coarse Sand, trace Clay, wet, no odor, slight odor in last 2"	70	0.0 0.0 0.0 0.0 0.0 0.0 0.0	

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

Boring Log	ELEVATION TOP OF HOLE +6.84	**Boring:** DPT-3
PROJECT Former Commander Oil Terminal - Off-Site	DRILLER	SHEET2 OF 2

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
20		15-17.2' light Brown fine SAND, little fine to coarse subangular to subrounded Gravel, Clay 17.2-19.5' brownish Orange fine to coarse SAND, some fine to coarse subangular to subrounded Gravel, little Clay, no odor, wet, orange staining in last 2"	90	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
22		20-20.3' brownish Orange fine to medium SAND, trace fine subrounded Gravel, wet, no odor 20.3-20.9' dark Brown fine to coarse subangular to subrounded GRAVEL, some fine to coarse Sand, little Silt, wet, no odor, very dense 20.9-22' light Brown fine SAND, little medium Sand, wet, no odor, clay lens @21.4", no odor, moist to wet, dense	100	0.0 0.0 0.0 0.0	

Boring Log

PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** Direct Push, 5' Macrocore
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller/Installation Cascade Environmental	**ELEVATION GROUND WATER**
Boring DPT-4	**DATE** 10/25/2024
NAME OF DRILLER T. MCNally	**ELEVATION TOP OF CASING** +9.94
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 94 %
TOTAL DEPTH (FT) 25	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID (ppm)
5		0-5' Fill soft cleared via vac truck	100	0.0
10		5-5.6' dark Grey very fine to medium SAND, some Silt, little fine to coarse angular to subrounded Gravel, moist, slight rubber-like odor 5.6-6.6' dark Grey very fine to coarse SAND, some Silt, little fine to coarse subangular to rounded Gravel, no odor, wet @ 6' 6.6-7' Black SILT, trace very fine Sand, trace Organics, wet, slight rubber-like odor, bog transition 7-8.2' Black SILT and ORGANICS, stiff, moderate organic odor 8.2-8.8' dark Grey very fine to medium SAND, trace Clay, slight Organic Odor	76	0.0 0.0 0.0 0.0 0.1 0.3 0.2 0.0
15		10-10.4" dark Grey very fine to medium SAND, trace Clay, fine to coarse subangular to subrounded Grvel, slight Organic Odor 10.4-12.7' reddish Brown fine to coarse angular to rounded GRAVEL, some Silt, very fine to coarse Sand, wet, slight orgainic odor 12.7-15' reddish Borwn SILT, some coarse Sand, fine subangular to subrounded Gravel, scattered orangish staining, slight unknown odor	100	
20		15-17' reddish Brown very fine ot coarse SAND, some fine to coarse subrounded Gravel, little Silt, wet 17-19.8' brownish Orange very fine to coarse SAND, some Silt, fine to coarse subrounded Gravel, wet, no odor, scattered reddish staining	96	
25		20-22.5' brownish Orange very fine to coarse SAND, some Silt, fine to coarse subrounded Gravel, wet, no odor, scattered reddish staining 22.5-24' dark Orange very fine to fine SAND, little fine to coarse subangular to rounded Gravel, wet, no odor 24-24.5' reddish Brown fine SAND and SILT, with black staining, no odor 24.5-25' reddish Brown SILT, some very fine to coarse Sand, little fine to coarse subangular to subrounded Gravel, trace Clay, moist, very stiff, no odor	100	

Abbreviations
' - feet, " - Inches

ARCADIS

Boring: MW-4

Boring Log

SHEET 1 OF 2

PROJECT Former Commander Oil Terminal Off-Site	**SIZE AND TYPE OF BIT** 6" Auger, Macrocore barrel
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller Cascade Environmental	**ELEVATION GROUND WATER**
Boring MW-4	**DATE** 10/25/2024
NAME OF DRILLER T. McNally	**ELEVATION TOP OF CASING** +9.83
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 78.3%
TOTAL DEPTH (FT) 30	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
0					
		0-5' Sand and Fill, soft dug with air-knife	100	0.0	Concrete surface mount J-plug MW-4S 0.5-5 ft. bgs MW-4M 0.5-15 ft. bgs MW-4D 0.5-21 ft. bgs sch. 40 PVC riser
5					
		5-7' very dark Grey Silty SAND with Gravel, very fine to coarse SAND, some Silt, little fine to coarse subangular to rounded Gravel, wet, slight rubber-like odor 7-10' Black PEAT, SILT and ORGANICS, slight rubber-like odor, moist, soft	50	0.0	MW-4S 5-7 ft. bgs MW-4M 15-17 ft. bgs MW-4D 21-23 ft. bgs 10-Slot Sch.40 PVS Screen
10					
		10-10.8' Black PEAT, SILT and ORGANICS, slight odor 10.8-11.3' Brown Silty SAND with Gravel, very fine to fine SAND, some Silt, little fine to coarse subangular to subrounded Gravel, trace clay, wet, no odor 11.3-13' Black Silty GRAVEL with Sand, fine to coarse subangular to subrounded GRAVEL, some Silt, little very fine to medium Sand, slight rubber-like odor, wet	60	0.5 0.2 0.0 0.0	MW-4S 1-3 ft. bgs MW-4M 8-13 ft. bgs MW-4D 18-19 ft. bgs Enviroplug Medium Bentonite plug

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

ARCADIS

Boring Log	ELEVATION TOP OF HOLE +9.83	Boring: MW-4
PROJECT: Former Commander Oil Terminal Off-Site	DRILLER: Cascade Environmental	SHEET2 OF 2

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
15					
20		15-20 Black Silty GRAVEL with Sand, fine to coarse subangular to subrounded GRAVEL, some Silt, little very fine to medium Sand, slight rubber-like odor, wet, transitions to more orange in color and less silt with depth	60	0.2 0.5 0.0 0.0	
25		20-22' light Brown very fine to medium SAND, little fine to coarse rounded Gravel, trace Silt, wet, no odor 22-25' reddish Brown Gravelly Sand with Silt, fine to coarse SAND, some fine to coarse subangular to subrounded Gravel, little Silt, moist, no odor	100	0.0	
30		25-25.5' reddish Brown Gravelly Sand with Silt, fine to coarse SAND, some fine to coarse subangular to subrounded Gravel, little Silt, moist, no odor 25.5-28' light Brown SAND with Gravel, fine to medium Sand, little fine to coarse subrounded Gravel, moist, dense, no odor 28-29' light Brown with orange and black staining very fine SAND, trace Silt 29-30' light Brown very fine SAND and SILT, little Clay, moist, stiff	100	0.0	MW-4S 3-8 ft. bgs MW-4M 9-15 ft. bgs MW-4D 24-28 ft. bgs Well Gravel Pack #0 Filter Sand

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

ARCADIS

Boring: MW-1

Boring Log

PROJECT Former Commander Oil Terminal Off-Site	**SIZE AND TYPE OF BIT** 6" Auger, Macrocore barrel
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller Cascade Environmental	**ELEVATION GROUND WATER**
Boring MW-1	**DATE** 10/21/2024
NAME OF DRILLER T. McNally	**ELEVATION TOP OF CASING** +8.05
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 63.6%
TOTAL DEPTH (FT) 25	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
0					
		0-5' Brown Silty SAND with Gravel, very fine to fine SAND, little Silt, fine to coarse angular Gravel, trace shells, moist, no odor	43	0.0	Concrete surface mount J-plug MW-1S 0.5-5 ft. bgs MW-1M 0.5-15 ft. bgs MW-1D 0.5-19 ft. bgs sch. 40 PVC riser
5		5-5.7' Brown Silty SAND with Gravel, very fine to fine SAND, little Silt, fine to coarse angular Gravel, trace shells, wet, no odor 5.7-7.2' very dark Brown Peat, ORGANICS, some Silt, little shells, clay, soft, sub rounded fine Gravel in the bottom 4"	47	0.0 0.5 0.5 1.7 5.5 0.0	MW-1S 5-7 ft. bgs MW-1 M15-17 ft. bgs MW-1D19-21 ft. bgs 10-Slot Sch.40 PVS Screen

Boring Log

PROJECT Former Commander Oil Terminal Off-Site	**SIZE AND TYPE OF BIT** 6" Auger, Macrocore barrel
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller Cascade Environmental	**ELEVATION GROUND WATER**
Boring MW-1	**DATE** 10/21/2024
NAME OF DRILLER T. McNally	**ELEVATION TOP OF CASING** +8.05
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 63.6%
TOTAL DEPTH (FT) 25	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
10		10-11.2' dark Grey SAND with Gravel, fine to coarse SAND, some fine to coarse subangular to rounded Gravel, trace Clay, wet 11.2-12.4' reddish Brown SAND with Gravel, very fine to coarse SAND, some fine to coarse subangular to subrounded Gravel, little Silt, no odor, wet	38	0.0	MW-1S 1-3 ft. bgs MW-1M 8-14 ft. bgs MW-1D18-18.5 ft. bgs Enviroplug Medium Bentonite plug
15		15-15.6' light Brown SAND with Gravel, very fine to coarse SAND, some fine to coarse subangular to subrounded Gravel, little Silt, no odor, wet 15.6-16.5' light reddish Brown SAND with Gravel, very fine SAND, some fine to coarse subrounded to rounded Gravel, wet, dense	90	0.0	

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

ARCADIS

Boring Log	ELEVATION TOP OF HOLE +8.05	Boring: MW-1
PROJECT Former Commander Oil Terminal Off-Site	DRILLER Cascade Environmental	SHEET3 OF 3

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
20		20-21.5' light greyish Brown GRAVEL with Sand, fine to coarse subrounded GRAVEL, some fine to coarse Sand, wet, soft 21.5-22.3' Orange SAND with Gravel, fine to coarse SAND, some fine to coarse subrounded Gravel, trace Silt, wet, soft 22.3-22.6' Orange Clayey SAND, very fine SAND, some Clay, trace fine rounded Gravel, wet, soft 22.6-23.2' mottled Grey CLAY, little fine Sand, stiff, moist 23.2-23.7' Orange very fine to fine SAND, little Silt, wet, soft 23.7-24.1' mottled Grey CLAY, little fine Sand, stiff, moist 24.1-25' light Brown very fine to fine SAND, little Silt, wet, soft	100	0.0	MW-1S 3-8 ft. bgs MW-1M 14-18 ft. bgs MW-1D 18.5-21 ft. bgs Well Gravel Pack #0 Filter Sand
25					

ARCADIS

Boring: MW-2

Boring Log

SHEET 1 OF 2

PROJECT Former Commander Oil Terminal Off-Site	**SIZE AND TYPE OF BIT** 6" Auger, Macrocore barrel
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller Cascade Environmental	**ELEVATION GROUND WATER**
Boring MW-2	**DATE** 10/22/2024
NAME OF DRILLER T. McNally	**ELEVATION TOP OF CASING** +6.95
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 85%
TOTAL DEPTH (FT) 30	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
0					
5		0-5' Brown Gravelly SAND, fill, dry to moist	100	0.0	Concrete surface mount J-plug MW-2S 0.5-5 ft. bgs MW-2M 0.5-10 ft. bgs MW-2D 0.5-23 ft. bgs sch. 40 PVC riser
10		5-5.5 dark Grey Gravelly SAND, fine to medium SAND, some fine to coarse angular to subrounded fine to coarse Gravel, trace SIlt, wet, no odor 5.5-6' dark Grey PEAT, Organics, some Clay, medium dense, wet	40	0.1 0.0 0.2 2.4 5.5	MW-2S 5-7 ft. bgs MW-2 M 10-12 ft. bgs MW-2D 23-25 ft. bgs 10-Slot Sch.40 PVS Screen MW-2S 1-3 ft. bgs MW-2M 7.5-8 ft. bgs MW-2D 19-21 ft. bgs Enviroplug Medium Bentonite plug
		10-10.4' Grey Sandy CLAY, CLAY, some fine Sand, little fine subangular to subrounded Gravel, stiff, wet 10.4-11' Grey SAND, fine to coarse SAND, little fine subangular Gravel, trace Silt 11-11.8' Grey GRAVEL with Sand, fine to coarse subrounded to rounded GRAVEL, little fine to coarse Sand, wet, no odor 11.8-13.5' greyish Brown gravelly SAND, fine to coarse SAND, some fine to coarse subangular ot subrounded Gravel, @ 13' rounded coarse Gravel, transition in color to orange, no odor	70	0.0	

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

ARCADIS

Boring Log	ELEVATION TOP OF HOLE +6.95	Boring: MW-2
PROJECT Former Commander Oil Terminal Off-Site	DRILLER Cascade Environmental	SHEET2 OF 2

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
15					
20		15-17' Orange gravelly SAND, fine to coarse SAND, some fine to coarse subangular ot subrounded Gravel 17-18.2' Orange SAND with Gravel, fine to medium SAND, some fine to coarse subrounded to rounded Gravel 18.2-20' Grey GRAVEL, fine subangular to subrounded fine GRAVEL, wet, dense, no odor	100	0.0	
25		20-21.5' Grey GRAVEL, fine subangular to subrounded fine GRAVEL, wet, dense, no odor, coarsening down 21.5-23.8' Grey SAND with Gravel, fine to coarse SAND, with some fine to coarse subrounded Gravel, wet, dense 23.8-25' light Brown fine SAND, little medium Sand, wet	100	0.0	MW-2S 3-7.5 ft. bgs MW-2M 8-14 ft. bgs MW-2D 21-25 ft. bgs Well Gravel Pack #0 Filter Sand
30		25-27.5' light reddish Brown GRAVEL with Sand, fine to coarse subangular to rounded GRAVEL, some medium to coarse Sand, very dense, wet, no odor 27.5-29' light Grey SAND, very fine to fine SAND, little medium Sand, trace fine subangular to subrounded Gravel, wet, no odor 29-30' light Grey SAND and SILT, very fine SAND and Silt, with interbedded Clay, wet, soft	100	0.0	

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

ARCADIS

Boring: MW-3

Boring Log

SHEET 1 OF 2

PROJECT Former Commander Oil Terminal Off-Site	**SIZE AND TYPE OF BIT** 6" Auger, Macrocore barrel
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller Cascade Environmental	**ELEVATION GROUND WATER**
Boring MW-3	**DATE** 10/24/2024
NAME OF DRILLER T. McNally	**ELEVATION TOP OF CASING** +6.91
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 86.4%
TOTAL DEPTH (FT) 25	**GEOLOGIST** M. Tucker

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
0					
		0-5' Gravelly SAND and Fill, soft dug with air-knife	100	0.0	Concrete surface mount J-plug MW-3S 0.5-5 ft. bgs MW-3M 0.5-15 ft. bgs MW-3D 0.5-21 ft. bgs sch. 40 PVC riser
5		5-5.5' light Brown Sandy GRAVEl, fine to coarse subangular to subrounded GRAVEL, some fine to coarse Sand, trace Silt,wet, dense, no odor 5.5-7' very dark Grey Brown Sandy SILT with Gravel, SILT, some very fine to medium Sand, little fine to coarse subrounded Gravel, trace shell fragments, wet, very stiff, slight organic odor 7-10' PEAT, SILT, some Organics, trace fine rounded Gravel, wet, organic odor	70	0.0 0.0 0.6 0.5 0.1	MW-3S 5-7 ft. bgs MW-3 M 15-17 ft. bgs MW-3D 21-23 ft. bgs 10-Slot Sch.40 PVS Screen
10		10-12.5 dark Grey Sandy GRAVEL, fine to coarse subangular to subrounded GRAVEL, some medium to coarse Sand, wet, medium dense, no odor 12.5-13' dark Grey SAND with Gravel, very fine	70	0.0	MW-3S 1-3 ft. bgs MW-3M 8-13 ft. bgs MW-3D 18-19 ft. bgs Enviroplug Medium Bentonite plug

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

ARCADIS

Boring Log	ELEVATION TOP OF HOLE +6.91	Boring: MW-3
PROJECT: Former Commander Oil Terminal Off-Site	DRILLER: Cascade Environmental	SHEET2 OF 2

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID ppm	Well/Boring Construction
15		to coarse SAND, little fine subangular Gravel, trace Silt, dense, wet, no odor 13-13.5' dark Grey Sandy SILT, SILT, with some very fine to medium Sand, trace fine subangular Gravel, organic odor, wet, soft			
20		15-16' dark Grey SAND with Gravel, very fine to coarse SAND, little fine to coarse subrounded to rounded Gravel, wet, medium dense, no odor 16-17.5' dark Grey GRAVEL with Sand, fine to coarse subangular to subrounded Gravel, som fine to coarse Sand, dense, wet, no odor 17.5-18.5' light reddish Brown Sandy Gravel, fine to coarse subangular to rounded Gravel, some very fine to coarse Sand, little Silt, dense, wet, no odor 18.5-19.8' dark Orange Gravelly SAND, medium to coarse SAND, some fine to coarse subangular to rounded Gravel, trace Silt, wet	96	0.0	
25		20-23' dark reddish Brown Sandy GRAVEL with Silt, fine to coarse subangular to rounded GRAVEL, some fine to coarse Sand, little Silt, no odor, wet, dense to very dense 23-23.5' dark reddish Brown Silty SAND with Gravel, very fine to fine SAND, some Silt, little fine to coarse subangular to subrounded Gravel, brown to black staining/coloraton change, no odor, wet, dense 23.5-24.8' light Brown very fine SAND, little interbedded clay layers, dense to very dense, wet first 2" and moist below, no odor	96	0.0	MW-3S 3-8 ft. bgs MW-3M 13-18 ft. bgs MW-3D 19-23 ft. bgs Well Gravel Pack #0 Filter Sand

Abbreviations
P- Primarily S-Secondarily L-Little T-Trace ' - Feet "- Inch

Boring Log

PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** 6" Stainless steel hand auger
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller/Installation Arcadis	**ELEVATION GROUND WATER**
Boring SDMT-3	**DATE** 10/29/2024
NAME OF DRILLER A.Gibson	**ELEVATION TOP OF CASING** -2.88
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 100%
TOTAL DEPTH (FT) 2	**GEOLOGIST** A.Gibson

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID (ppm)
0.5		0-1' tannish Grey fine SAND, little medium Sand, trace Silt, shell fragments, saturated, slight chemical-like odor, organic odor, soft		
1				
1.5		1-2' dark Grey fine SAND, some Silt, little medium Sand, saturated, soft, strong petroleum-like odor	100	6.5
2				

Boring Log

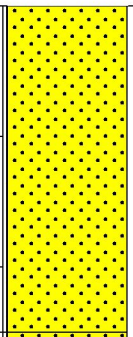
PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** 6" Stainless steel hand auger
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller/Installation Arcadis	**ELEVATION GROUND WATER**
Boring SDMT-1	**DATE** 10/29/2024
NAME OF DRILLER A.Gibson	**ELEVATION TOP OF CASING** -0.61
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 100%
TOTAL DEPTH (FT) 2	**GEOLOGIST** A.Gibson

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID (ppm)
0.5		0-0.8' dark Grey SILT, some Clay, little fine Sand, trace Organics, saturated, soft, strong Organic odor, slight petroleum like odor	100	10.5
1		0.8-2.0' dark Grey fine SAND, some Silt, little medium Sand, saturated, soft, strong petroleum-like odor, moderate staining		
1.5				
2				

Abbreviations
' - feet, " - Inches

Boring Log

PROJECT Former Commander Oil Terminal - Off-Site	**SIZE AND TYPE OF BIT** 6" Stainless steel hand auger
LOCATION Oyster Bay, NY	**DATUM FOR ELEVATION SHOWN** *(TBM or MSL)* MSL
Driller/Installation Arcadis	**ELEVATION GROUND WATER**
Boring SDMT-2	**DATE** 10/29/2024
NAME OF DRILLER A.Gibson	**ELEVATION TOP OF CASING** -0.82
DIRECTION OF HOLE [X] VERTICAL [--] INCLINED _____	**TOTAL CORE RECOVERY FOR BORING** 100%
TOTAL DEPTH (FT) 2	**GEOLOGIST** A.Gibson

DEPTH (FT)	LEGEND	DESCRIPTION	% CORE RECOVERY	PID (ppm)
0.5		0-0.5' tannish Grey fine SAND, little medium Sand, Silt, shell fragments, saturated, moderate petroleum-like odor, soft	100	71.3
1		0.5-1.2' Grey fine SAND, little medium Sand, Silt, saturated, moderate petroleum-like odor, soft, moderate staining		
1.5		1.2-1.8' dark Grey fine SAND, some Silt, little medium Sand, saturated, soft, strong petroleum-like odor, brown NAPL blebs, heavy staining		
2		1.8-2.0' darj Grey CLAY, some Silt, wet, soft, sticky, slight plasticity, strong petroleum-like odor		

Abbreviations
' - feet, " - Inches

Appendix E

Groundwater Sampling Logs

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-1S | Date 11/12/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 52 F, Sunny, Windy

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 5.34-7.34 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 3.73 | Total Depth (ft-btoc): 7.46 | Water Column (ft.): 3.74 | Gallons in Well: 0.15

MP Elevation: 7.71 | Pump Intake (ft-btoc): 6.34 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1205 / 1435

Sample Time: Label 1310, Start 1306, End 1435 | Volumes Purged: 21.13 | Gallons Purged: 3.17 | Sample ID: MW-1S | Replicate/Code No: MS/MSD, DUP-111224 | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1205	0	200	3.74	0.00	6.83	3.26	1000	0.37	15.3	-108.9	Brown	None
1210	5	200	3.75	0.26	7.00	3.39	88.5	0.27	15.3	-126.7	Gray	None
1215	10	200	3.75	0.53	7.02	3.40	63.2	0.23	15.3	-135.4	Clear	None
1220	15	200	3.75	0.79	7.05	3.41	28.6	0.26	15.4	-145.1	Clear	None
1225	20	200	3.75	1.06	7.01	3.40	20.4	0.24	15.3	-147.3	Clear	None
1230	25	200	3.76	1.32	6.99	3.40	11.6	0.22	15.2	-148.8	Clear	None
1235	30	200	3.76	1.59	7.03	3.40	10.6	0.22	15.3	-149.9	Clear	None
1240	35	200	3.77	1.85	7.03	3.41	18.5	0.20	15.2	-151.9	Clear	None
1245	40	200	3.77	2.11	7.03	3.41	16.7	0.20	15.3	-153.0	Clear	None
1250	45	200	3.77	2.38	7.02	3.41	14.3	0.20	15.3	-154.6	Clear	None
1255	50	200	3.77	2.64	7.02	3.39	10.8	0.19	15.3	-156.4	Clear	None
1300	55	200	3.78	2.91	7.03	3.38	4.52	0.19	15.3	-157.0	Clear	None
1305	60	200	3.78	3.17	7.04	3.38	3.41	0.20	15.2	-158.1	Clear	None
Stabilization Calculations ±					7.02	3.39	10.8	0.19	15.3	-156.4		
					7.03	3.38	4.52	0.19	15.3	-157.0		
					7.04	3.38	3.41	0.20	15.2	-158.1		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	12	HCl
PFAS, 1633	250 mL Poly	2	None
Total Hg, Total Metals	250 mL Poly	1	HNO3
TCN	250 mL Poly	4	NaOH
SVOCs 8270	100 mL Amber	2	None
Pesticides / PCBs	100 mL Amber	16	None
Herbicides	1 L Amber	2	None
1,4 - Dioxane	1 L Amber	2	None
Hexavalent Chromium	250 mL Poly	4	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Near fence in tenant gravel driveway | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-1M | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 65 F, Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 15.26-17.26 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 6.09 | Total Depth (ft-btoc): 17 | Water Column (ft.): 10.91 | Gallons in Well: 0.44

MP Elevation: 7.79 | Pump Intake (ft-btoc): 16.26 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1344 / 1453

Sample Time: Label 1450, Start 1446, End 1453 | Volumes Purged: 5.41 | Gallons Purged: 2.38 | Sample ID: MW-1M | Replicate/Code No: -- | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1345	0	150	6.14	0.00	6.68	3.55	126	0.30	15.1	-52.4	Clear	None
1350	5	150	6.14	0.20	6.71	3.54	75.1	0.27	15.1	-53.0	Clear	None
1355	10	150	6.14	0.40	6.71	3.55	65.8	0.27	15.0	-55.2	Clear	None
1400	15	150	6.14	0.59	6.70	3.50	40.1	0.27	15.0	-55.9	Clear	None
1405	20	150	6.14	0.79	6.70	3.45	15.9	0.27	15.0	-56.1	Clear	None
1410	25	150	6.14	0.99	6.70	3.34	7.50	0.27	14.9	-56.0	Clear	None
1415	30	150	6.14	1.19	6.69	3.29	93.2	0.27	15.0	-55.8	Clear	None
1420	35	150	6.14	1.39	6.69	3.24	71	0.27	15.0	-55.3	Clear	None
1425	40	150	6.14	1.59	6.69	3.20	50.3	0.28	14.9	-55.6	Clear	None
1430	45	150	6.14	1.78	6.69	3.15	27.6	0.28	14.9	-56.0	Clear	None
1435	50	150	6.14	1.98	6.68	3.10	9.38	0.29	14.9	-55.5	Clear	None
1440	55	150	6.14	2.18	6.67	3.08	4.61	0.30	14.9	-55.2	Clear	None
1445	60	150	6.14	2.38	6.66	3.02	3.11	0.31	14.9	-53.4	Clear	None
				Stabilization Calculations ±	6.68	3.10	9.38	0.29	14.9	-55.5		
					6.67	3.08	4.61	0.30	14.9	-55.2		
					6.66	3.02	3.11	0.31	14.9	-53.4		
				Stabilization Criteria	± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Near fence in tenant gravel driveway | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-1D | Date 11/12/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 50 F, Sunny, Windy

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 19.22-21.22 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 3.37 | Total Depth (ft-btoc): 21.56 | Water Column (ft.): 18.19 | Gallons in Well: 0.73

MP Elevation: 7.83 | Pump Intake (ft-btoc): 20.22 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 0939 / 1130

Sample Time: Label 1040, Start 1036, End 1130 | Volumes Purged: 4 | Gallons Purged: 2.9 | Sample ID: MW-1D | Replicate/Code No: | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
0940	0	200	3.55	0.00	6.53	0.331	1000	1.83	14.3	23.2	Brown	None
0945	5	200	3.55	0.26	6.30	0.314	1000	1.91	14.3	59.1	Brown	None
0950	10	200	3.60	0.53	6.16	0.306	350	1.93	14.3	81.8	Brown	None
0955	15	200	3.60	0.79	6.09	0.296	69.7	1.92	14.2	103.2	Clear	None
1000	20	200	3.71	1.06	6.08	0.295	48.1	1.92	14.2	108.1	Clear	None
1005	25	200	3.71	1.32	6.03	0.291	45.7	1.99	14.0	124.6	Clear	None
1010	30	200	3.85	1.59	6.03	0.291	38.3	2.04	13.9	127.7	Clear	None
1015	35	200	3.85	1.85	6.01	0.291	33.4	2.03	14.0	130.2	Clear	None
1020	40	200	3.92	2.11	6.00	0.287	16.5	2.09	13.8	139.9	Clear	None
1025	45	200	3.98	2.38	5.99	0.287	13.3	2.07	13.8	141.1	Clear	None
1030	50	200	3.98	2.64	5.99	0.283	13.5	2.04	13.8	146.5	Clear	None
1035	55	200	3.98	2.91	5.99	0.281	13.4	2.00	13.8	149.2	Clear	None
Stabilization Calculations ±					5.99	0.287	13.3	2.07	13.8	141.1		
					5.99	0.283	13.5	2.04	13.8	146.5		
					5.99	0.281	13.4	2.00	13.8	149.2		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
PFAS, 1633	250 mL Poly	2	None
Total Hg, Total Metals	250 mL Poly	1	HNO3
TCN	250 mL Poly	1	NaOH
SVOCs 8270	100 mL Amber	2	None
Pesticides / PCBs	100 mL Amber	4	None
Herbicides	1 L Amber	2	None
1,4 - Dioxane	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Near fence in tenant gravel driveway | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-2S | Date 11/12/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 50 F, Windy

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 5.34-7.34 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 2.48 | Total Depth (ft-btoc): 6.36 | Water Column (ft.): 3.88 | Gallons in Well: 0.16

MP Elevation: 6.43 | Pump Intake (ft-btoc): 5.85 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 0839/1133

Sample Time: Label 0925, Start 0925, End 1133 | Volumes Purged: 14.86 | Gallons Purged: 2.38 | Sample ID: MW-2S | Replicate/Code No: -- | Sampled by: AG

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
0844	5	200	2.50	0.26	7.46	0.731	76.51	1.39	14.0	-102.5	Cloudy	None
0849	10	200	2.56	0.53	7.50	0.792	16.98	0.75	13.5	-94.2	Clear	None
0854	15	200	2.56	0.79	7.49	0.796	8.91	0.52	13.6	-105.6	Clear	None
0859	20	200	2.56	1.06	7.47	0.804	0.81	0.36	13.6	-112.5	Clear	None
0904	25	200	2.57	1.32	7.46	0.809	0.39	0.29	13.6	-119.4	Clear	None
0909	30	200	2.57	1.59	7.45	0.809	1.26	0.26	13.6	-121.3	Clear	None
0914	35	200	2.57	1.85	7.45	0.809	0.75	0.23	13.7	-124.2	Clear	None
0919	40	200	2.57	2.11	7.45	0.806	0.88	0.21	13.6	-125.9	Clear	None
0924	45	200	2.57	2.38	7.45	0.807	0.95	0.20	13.6	-127.3	Clear	None
Stabilization Calculations ±					7.45	0.809	0.75	0.23	13.7	-124.2		
					7.45	0.806	0.88	0.21	13.6	-125.9		
					7.45	0.807	0.95	0.20	13.6	-127.3		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
PFAS, 1633	250 mL Poly	2	None
SVOCs 8270	100 mL Amber	2	None
1,4 - Dioxane	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Near corner of office trailers | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-2M | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 64 F, Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 10.52-12.52 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 4.48 | Total Depth (ft-btoc): 12.46 | Water Column (ft.): 7.98 | Gallons in Well: 0.32

MP Elevation: 6.61 | Pump Intake (ft-btoc): 11.99 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1136/1235

Sample Time: Label 1227, Start 1227, End 1235 | Volumes Purged: 8.26 | Gallons Purged: 2.64 | Sample ID: MW-2M | Replicate/Code No: -- | Sampled by: AG

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1141	5	200	4.53	0.26	7.07	0.76	93.6	0.48	15.1	-88.4	Clear	None
1146	10	200	4.61	0.53	7.13	0.77	73.1	0.43	15.1	-106.5	Clear	None
1151	15	200	4.65	0.79	7.18	0.78	65.4	0.41	15.1	-125.9	Clear	None
1156	20	200	4.70	1.06	7.21	0.78	59.6	0.39	15.1	-148.3	Clear	None
1201	25	200	4.72	1.32	7.22	0.78	53.8	0.41	15.1	-154.3	Clear	None
1206	30	200	4.74	1.59	7.22	0.78	41.3	0.38	15.1	-157.8	Clear	None
1211	35	200	4.74	1.85	7.22	0.78	34.5	0.36	15.1	-160.8	Clear	None
1216	40	200	4.74	2.11	7.22	0.78	29.7	0.35	15.1	-160.1	Clear	None
1221	45	200	4.74	2.38	7.22	0.78	28.1	0.35	15.1	-160.8	Clear	None
1226	50	200	4.74	2.64	7.22	0.78	27.8	0.32	15.1	-161.2	Clear	None
Stabilization Calculations ±					7.22	0.78	29.7	0.35	15.1	-160.1		
					7.22	0.78	28.1	0.35	15.1	-160.8		
					7.22	0.78	27.8	0.32	15.1	-161.2		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Near corner of office trailers | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-2D | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 61 F, Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 23.38-25.38 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 3.08 | Total Depth (ft-btoc): 25.84 | Water Column (ft.): 22.76 | Gallons in Well: 0.91

MP Elevation: 6.57 | Pump Intake (ft-btoc): 24.38 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1026/1133

Sample Time: Label 1122, Start 1122, End 1133 | Volumes Purged: 3.19 | Gallons Purged: 2.91 | Sample ID: MW-2D | Replicate/Code No: -- | Sampled by: AG

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1031	5	200	3.18	0.26	5.61	0.298	628	6.29	14.3	120.5	Brown	None
1036	10	200	3.27	0.53	5.63	0.297	451	5.91	14.2	127.5	Cloudy	None
1041	15	200	3.34	0.79	5.64	0.297	263	5.76	14.2	135.6	Cloudy	None
1046	20	200	3.36	1.06	5.68	0.296	115	5.73	14.2	138.8	Clear	None
1051	25	200	3.36	1.32	5.76	0.295	43.5	5.74	14.2	141.3	Clear	None
1056	30	200	3.36	1.59	5.79	0.295	75.0	5.07	14.5	138.6	Clear	None
1101	35	200	3.36	1.85	5.77	0.294	63.8	4.85	14.5	138.3	Clear	None
1106	40	200	3.36	2.11	5.76	0.294	52.9	4.52	14.5	138.2	Clear	None
1111	45	200	3.36	2.38	5.76	0.294	41.9	4.47	14.5	137.9	Clear	None
1116	50	200	3.36	2.64	5.77	0.294	40.7	4.41	14.5	137.6	Clear	None
1121	55	200	3.36	2.91	5.77	0.294	38.9	4.34	14.4	137.5	Clear	None
Stabilization Calculations ±					5.76	0.294	41.9	4.47	14.5	137.9		
					5.77	0.294	40.7	4.41	14.5	137.6		
					5.77	0.294	38.9	4.34	14.4	137.5		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Near corner of office trailers | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-3S | Date 11/12/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 50 F, runny, windy

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 5.41-7.41 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 4.06 | Total Depth (ft-btoc): 6.78 | Water Column (ft.): 2.72 | Gallons in Well: 0.11

MP Elevation: 6.50 | Pump Intake (ft-btoc): 6.10 ->6.70 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 0759/0900

Sample Time: Label 1304/1432, Start 1304, End 1432 | Volumes Purged: 13.82 | Gallons Purged: 1.52 | Sample ID: MW-3S | Replicate/Code No: -- | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
0800	0	150	4.35	0.00	6.89	2.02	213	0.61	17.0	-77.9	Gray	None
0805	5	150	5.26	0.20	6.92	2.00	84.2	0.63	17.2	-84.7	Gray	None
0810	10	150	5.39	0.40	7.01	1.98	69.5	2.18	17.1	-94.6	Gray	None
0815	15	150	5.47	0.59	7.13	1.94	78.5	4.96	16.9	-103.5	Gray	None
0845	20	150	5.55	0.79	7.00	1.99	841	0.76	17.6	-90.2	Gray	None
0850	25	150	6.02	0.99	6.99	1.93	427	0.63	17.6	-86.8	Gray	None
Pump intake lowered to 6.70 ft. due to drawdown												
0855	30	150	6.32	1.19	6.95	1.97	1000	0.37	17.8	-136.3	Gray	None
0900	35	150	6.61	1.39	6.95	1.76	1000	0.30	17.7	-143.3	Gray	None
@ 0901 Well pumped dry												
1303	--	--	5.23	--	7.04	2.164	649.47	6.26	16.9	63.1	Brown	None
Stabilization Calculations ±					Stability not reached. Well sampled after being purged dry and allowed to recharge							
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
PFAS, 1633	250 mL Poly	2	None
Total Hg, Total Metals & Dissolved Metals	250 mL Poly	2	HNO3
TCN	250 mL Poly	1	NaOH
SVOCs 8270	100 mL Amber	2	None
Pesticides / PCBs	100 mL Amber	4	None
Herbicides	1 L Amber	2	None
1,4 - Dioxane	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04, 1.25" = 0.06, 1.5" = 0.09, 2" = 0.16, 2.5" = 0.26, 3" = 0.37, 3.5" = 0.50, 4" = 0.65, 6" = 1.47

Well Information

Well Location: In parking lot near loading ramp | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-3M | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 60 F, sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 15.41-17.41 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 4.15 | Total Depth (ft-btoc): 17 | Water Column (ft.): 12.85 | Gallons in Well: 0.51

MP Elevation: 6.50 | Pump Intake (ft-btoc): 16.21 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1049 / 1252

Sample Time: Label 1250, Start 1050, End 1252 | Volumes Purged: 12.69 | Gallons Purged: 6.47 | Sample ID: MW-3M | Replicate/Code No: | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1050	0	300	4.51	0.00	6.62	0.429	635.88	1.56	17.8	-74.1	Brown	None
1055	5	300	4.51	0.40	6.64	0.429	272.79	0.74	17.8	28.2	Brown	None
1100	10	300	4.63	0.79	6.66	0.429	206.44	0.49	17.7	4.6	Brown	None
1105	15	300	4.71	1.19	6.66	0.429	220.99	0.36	17.8	-12.9	Brown	None
1110	20	300	4.71	1.59	6.68	0.428	360.68	0.29	17.9	-28.1	Brown	None
1115	25	300	4.80	1.98	6.68	0.429	441.45	0.24	17.9	-39.4	Brown	None
1120	30	300	4.80	2.38	6.69	0.428	391.99	0.23	17.9	-42.7	Brown	None
1125	35	300	4.92	2.77	6.69	0.427	314.08	0.22	17.9	-45.1	Brown	None
1130	40	200	4.92	2.11	6.70	0.426	372.98	0.20	18.0	-50.7	Brown	None
1135	45	200	4.98	2.38	6.70	0.430	200.48	0.21	18.1	-50.8	Brown	None
1140	50	200	4.98	2.64	6.70	0.435	56.93	0.22	18.2	-50.9	Clear	None
1145	55	200	5.05	2.91	6.70	0.434	95.61	0.20	18.2	-51.6	Clear	None
1150	60	200	5.05	3.17	6.70	0.434	128.10	0.20	18.2	-52.2	Brown	None
Stabilization Calculations ±					--	--	--	--	--	--		
					--	--	--	--	--	--		
					--	--	--	--	--	--		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: In parking lot near loading ramp | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-3M | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 60 F, sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 15.41-17.41 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 4.15 | Total Depth (ft-btoc): 17 | Water Column (ft.): 12.85 | Gallons in Well: 0.51

MP Elevation: 6.50 | Pump Intake (ft-btoc): 16.21 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1049 / 1252

Sample Time: Label 1250, Start 1246, End 1252 | Volumes Purged: 12.69 | Gallons Purged: 6.47 | Sample ID: MW-3M | Replicate/Code No: | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1155	65	200	5.11	3.43	6.70	0.433	131.82	0.20	18.1	-52.6	Clear	None
1200	70	150	5.11	2.77	6.69	0.437	146.96	0.20	18.1	-53.2	Clear	None
1205	75	150	5.26	2.97	6.69	0.437	192.52	0.18	18.2	-54.4	Clear	None
1210	80	150	5.26	3.17	6.69	0.436	247.03	0.18	18.2	-55.5	Clear	None
1215	85	150	5.33	3.37	6.69	0.437	250.83	0.17	18.2	-55.6	Clear	None
1220	90	150	5.33	3.57	6.70	0.441	17.9	0.17	18.3	-56.7	Clear	None
1225	95	150	5.33	3.76	6.72	0.414	15.6	0.55	18.0	-55.3	Clear	None
1230	100	150	5.33	3.96	6.70	0.408	14.1	0.50	18.1	-58.7	Clear	None
1235	105	150	5.33	4.16	6.68	0.404	12.7	0.45	18.2	-61.3	Clear	None
1240	110	150	5.33	4.36	6.66	0.404	9.33	0.41	18.2	-66.7	Clear	None
1245	115	150	5.33	4.56	6.63	0.404	6.66	0.40	18.3	-68.9	Clear	None
Stabilization Calculations ±					6.68	0.404	12.7	0.45	18.2	-61.3		
					6.66	0.404	9.33	0.41	18.2	-66.7		
					6.63	0.404	6.66	0.40	18.3	-68.9		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: In parking lot near loading ramp | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-3D | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 60 F, overcast

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 21.40-23.40 | Casing Diameter (in.): 1 | Well Material: X PVC / SS

Static Water Level (ft-btoc): 2.66 | Total Depth (ft-btoc): 23.47 | Water Column (ft.): 20.81 | Gallons in Well: 0.83

MP Elevation: 6.51 | Pump Intake (ft-btoc): 22.4 | Purge Method: Peristaltic X / Submersible / Bladder | Sample Method: Low Flow

Pump On/Off: 0925 / 1003

Sample Time: Label 1000 | Start 0956 | End 1003 | Volumes Purged: 2.07 | Gallons Purged: 1.72 | Sample ID: MW-3D | Replicate/Code No: -- | Sampled by: AH

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
0925	0	200	2.66	0.00	5.93	0.337	53.07	5.85	16.4	129.6	clear	none
0930	5	200	2.66	0.26	5.91	0.334	51.31	5.63	16.3	133.8	clear	none
0935	10	200	2.66	0.53	5.90	0.333	46.22	5.53	16.3	135.8	clear	none
0940	15	200	2.66	0.79	5.86	0.331	44.93	5.23	16.4	150.0	clear	none
0945	20	200	2.66	1.06	5.86	0.330	51.64	5.27	16.4	152.1	clear	none
0950	25	200	2.66	1.32	5.86	0.330	50.10	5.34	16.4	153.3	clear	none
0955	30	200	2.66	1.59	5.87	0.327	49.60	5.32	16.5	156.1	clear	none
Stabilization Calculations ±					5.86	0.330	51.64	5.27	16.4	152.1		
					5.86	0.330	50.10	5.34	16.4	153.3		
					5.87	0.327	49.60	5.32	16.5	156.1		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: In parking lot near loading ramp | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-4S | Date 11/12/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 50 F, runny, windy

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 5.35-7.35 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 5.68 | Total Depth (ft-btoc): 7.39 | Water Column (ft.): 1.71 | Gallons in Well: 0.07

MP Elevation: 9.83 | Pump Intake (ft-btoc): 6.35 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1140

Sample Time: Label 1250, Start 1250, End 1602 | Volumes Purged: 5.66 | Gallons Purged: 0.4 | Sample ID: MW-4S | Replicate/Code No: -- | Sampled by: AG

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1145	5	200	6.93	0.26	6.72	0.321	458	0.91	17.5	-101.4	Gray	slight
1150	10	150	7.28	0.40	6.75	0.381	398	0.63	17.1	-97.5	Gray	slight
@ 1151 Well pumped dry												
1249	--	--	5.65	--	6.68	0.355	31.7	0.52	16.9	-95.8	Cloudy	slight
Stabilization Calculations ±					--	--	--	--	--	--		
					--	--	--	--	--	--		
					--	--	--	--	--	--		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
TCN	250 mL Poly	1	NaOH
SVOCs 8270	100 mL Amber	2	None
1,4 - Dioxane	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: In asphalt near fence and garage | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-4M | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 64 F, Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 11.36-13.36 | Casing Diameter (in.): 1 | Well Material: X PVC / SS

Static Water Level (ft-btoc): 7.00 | Total Depth (ft-btoc): 11.40 | Water Column (ft.): 4.40 | Gallons in Well: 0.18

MP Elevation: 9.47 | Pump Intake (ft-btoc): 12.36 | Purge Method: Peristaltic X / Submersible / Bladder | Sample Method: Low Flow

Pump On/Off: 1347/1456

Sample Time: Label 1448, Start 1347, End 1456 | Volumes Purged: 17.61 | Gallons Purged: 3.17 | Sample ID: MW-4M | Replicate/Code No: -- | Sampled by: AG

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1352	5	200	7.10	0.26	6.45	4.535	809.41	0.77	17.2	-66.1	Gray	None
1357	10	200	7.11	0.53	6.48	4.581	653.71	0.77	17.2	-69.3	Gray	None
1402	15	200	7.13	0.79	6.50	4.573	491.33	0.77	17.3	-75.1	Gray	None
1407	20	200	7.14	1.06	6.53	4.588	339.26	0.76	17.3	-88.1	Brown	None
1412	25	200	7.14	1.32	6.54	4.581	127.65	0.61	17.2	-83.5	Cloudy	None
1417	30	200	7.14	1.59	6.55	4.575	83.12	0.53	17.3	-88.9	Cloudy	None
1422	35	200	7.14	1.85	6.55	4.573	49.58	0.42	17.1	-87.2	Clear	None
1427	40	200	7.14	2.11	6.56	4.570	17.65	0.37	17.3	-87.1	Clear	None
1432	45	200	7.14	2.38	6.56	4.570	8.04	0.21	17.1	-87.8	Clear	None
1437	50	200	7.14	2.64	6.57	4.513	2.13	0.19	17.0	-89.1	Clear	None
1442	55	200	7.14	2.91	6.57	4.512	1.68	0.18	17.0	-91.5	Clear	None
1447	60	200	7.14	3.17	6.57	4.511	1.43	0.17	17.0	-93.8	Clear	None
				Stabilization Calculations ±	6.57	4.513	2.13	0.19	17.0	-89.1		
					6.57	4.512	1.68	0.18	17.0	-91.5		
					6.57	4.511	1.43	0.17	17.0	-93.8		
				Stabilization Criteria	± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: In asphalt near fence and garage | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Low Flow Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID MW-4D | Date 11/11/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather 64 F, Sunny

Measuring Pt. Description: TIC | Screen Setting (ft-bmp): 26.38-28.38 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 6 | Total Depth (ft-btoc): 29.25 | Water Column (ft.): 23.25 | Gallons in Well: 0.93

MP Elevation: 9.45 | Pump Intake (ft-btoc): 27.38 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Low Flow

Pump On/Off: 1237/1342

Sample Time: Label 1333, Start 1237, End 1342 | Volumes Purged: 3.12 | Gallons Purged: 2.91 | Sample ID: MW-4D | Replicate/Code No: -- | Sampled by: AG

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (mg/L) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1242	5	200	6.23	0.26	5.81	0.297	25.75	7.01	16.5	168.0	Cloudy	None
1247	10	200	6.51	0.53	5.83	0.301	123.5	7.00	16.9	165.3	Cloudy	None
1252	15	200	6.67	0.79	5.88	0.304	96.80	6.99	17.1	161.0	Cloudy	None
1257	20	200	6.67	1.06	8.86	0.304	75.91	7.05	17.1	168.3	Cloudy	None
1302	25	200	6.67	1.32	5.85	0.304	63.59	7.14	17.1	169.5	Cloudy	None
1307	30	200	6.67	1.59	5.84	0.304	54.15	7.20	17.2	176.2	Clear	None
1312	35	200	6.67	1.85	5.85	0.304	38.75	7.20	16.9	177.5	Clear	None
1317	40	200	6.67	2.11	5.85	0.303	24.59	7.20	16.7	179.9	Clear	None
1322	45	200	6.67	2.38	5.85	0.303	16.85	7.20	16.3	181.3	Clear	None
1327	50	200	6.67	2.64	5.85	0.303	17.02	7.20	16.2	185.3	Clear	None
1332	55	200	6.67	2.91	5.85	0.303	16.45	7.20	16.1	187.7	Clear	None
Stabilization Calculations ±					5.85	0.303	16.85	7.20	16.3	181.3		
					5.85	0.303	17.02	7.20	16.2	185.3		
					5.85	0.303	16.45	7.20	16.1	187.7		
Stabilization Criteria					± 0.1	± 3%	± 10%	± 10%	± 3%	± 10 mV		

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: In asphalt near fence and garage | Well Locked at Arrival: **Yes** / No

Condition of Well: Good | Well Locked at Departure: **Yes** / No

Well Completion: **Flush Mount** / Stick Up | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-1 (11-13) | Date 10/23/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 11-13 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 5.91 | Total Depth (ft-btoc): 12.05 | Water Column (ft.): 6.14 | Gallons in Well: 0.2456

MP Elevation: --- | Pump Intake (ft-btoc): 12.05 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1430/1435

Sample Time: Label 1450, Start 1450, End 1455 | Volumes Purged: -- | Gallons Purged: -- | Sample ID: DPT-1(11-13)GW102324 | Replicate/Code No: -- | Sampled by: MT

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (^{o}C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1435	5	--	--	--	6.64	1.206	1229.6	45	18.53	-138.6	grey	
1445	15	--	--	--	6.66	1.203	260	61.7	19.3	-99	grey	petroleum-like
1450	20	--	--	--	6.69	1.193	219.8	68.1	19.34	-95.2	grey	petroleum-like

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	NA	Well Locked at Arrival:	NA
Condition of Well:	NA	Well Locked at Departure:	NA
Well Completion:	NA	Key Number To Well:	NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-1 (15-17) | Date 10/23/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 15-17 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 5.8 | Total Depth (ft-btoc): 16 | Water Column (ft.): 10.2 | Gallons in Well: 0.408

MP Elevation: --- | Pump Intake (ft-btoc): 16 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1250/1425

Sample Time: Label 1415, Start 1415, End 1425 | Volumes Purged: -- | Gallons Purged: -- | Sample ID: DPT-1(15-17)GW102324 | Replicate/Code No: -- | Sampled by: MT

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (^{o}C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1300	10	--	--	--	6.34	0.380	1229.4	54	18.28	-242.3	Brown	organic
1315	25	--	--	--	6.19	0.354	882.5	79.5	16.91	-181.9	Brown	organic
1330	40	--	--	--	6.16	0.347	757	68.2	17.07	-184.6	Brown	organic
1345	55	--	--	--	6.10	0.342	404	80.8	17.01	-145	Brown	organic
1400	70	--	--	--	6.03	0.329	256	74.4	16.68	-154.9	Brown	organic

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None
PFAS, 1633	250 mL Poly	2	None
1,4 - Dioxane	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-2 (5-7) | Date 10/24/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 5-7 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 2.95 | Total Depth (ft-btoc): 7.1 | Water Column (ft.): 4.15 | Gallons in Well: 0.166

MP Elevation: --- | Pump Intake (ft-btoc): 7.1 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1135/1150

Sample Time: Label 1150 | Start 1150 | End 1200 | Volumes Purged -- | Gallons Purged -- | Sample ID DPT-2(5-7)GW102424 | Replicate/Code No -- | Sampled by MT

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1140	5	--	--	--	7.10	0.773	94.8	78	16.78	-86.4	grey	petroleum like
1147	12	--	--	--	7.29	0.649	25.8	62.7	16.51	-104.9	cloudy	petroleum like
1155	20	--	--	--	7.30	0.782	20.8	59.7	16.30	-106.2	clear	petroleum like

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-2 (15-17) | Date 10/23/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 15-17 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 5.12 | Total Depth (ft-btoc): 16.3 | Water Column (ft.): 11.18 | Gallons in Well: 0.4472

MP Elevation: --- | Pump Intake (ft-btoc): 16.3 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1228/1320

Sample Time: Label 1315, Start 1315, End 1320 | Volumes Purged: -- | Gallons Purged: -- | Sample ID: DPT-2(15-17)GW102324 | Replicate/Code No: -- | Sampled by: MT

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1250	22	--	--	--	6.73	0.374	1134.3	55.8	14.94	-16.5	rd. brown	no odor
1305	37	--	--	--	6.40	0.358	614.9	76.4	14.66	-10.7	rd. brown	no odor
1310	42	--	--	--	6.36	0.357	479.8	78.3	14.68	-19.6	rd. brown	no odor
1330	62	--	--	--	6.42	0.363	650	65.6	15.01	-58	rd. brown	no odor

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None
PFAS, 1633	250 mL Poly	2	None
1,4 - Dioxane	1 L Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-3 (9.5-11.5) | Date 10/22/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 9.5-11.5 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 5.5 | Total Depth (ft-btoc): 11.5 | Water Column (ft.): 6 | Gallons in Well: 0.24

MP Elevation: --- | Pump Intake (ft-btoc): 11.5 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1130

Sample Time: Label 1130 | Volumes Purged -- | Sample ID DPT-3(9.5-11.5)GW102224

Start 1130 | Gallons Purged -- | Replicate/Code No -- | Sampled by MT

End 1130

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1130	--	--	--	--		6.84	153.7	37.3	19.85	-89.0	--	--

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-3 (20-22) | Date 10/22/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 20-22 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 5.7 | Total Depth (ft-btoc): 22 | Water Column (ft.): 16.3 | Gallons in Well: 0.652

MP Elevation: --- | Pump Intake (ft-btoc): 22 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1120

Sample Time: Label 1120 | Volumes Purged -- | Sample ID DPT-3(20-22)GW102224

Start 1120 | Gallons Purged -- | Replicate/Code No -- | Sampled by MT

End 1120

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1120	--	--	--	--	6.87	6.11	0.412	56.2	17.89	-259.2	--	--

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None

Well Casing Volumes

Gallons/Foot					
	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-4 (10-12) | Date 10/25/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 10-12 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 7.27 | Total Depth (ft-btoc): 11.7 | Water Column (ft.): 4.43 | Gallons in Well: 0.1772

MP Elevation: --- | Pump Intake (ft-btoc): 11.7 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1209/1535

Sample Time: Label 1535 | Volumes Purged -- | Sample ID DPT-4(10-12)GW102524

Start 1535 | Gallons Purged -- | Replicate/Code No -- | Sampled by MT

End 1540

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1225	16	--	--	--	6.87	0.768	554	47.4	14.03	-98.7	grey	none
1230	21	--	--	--	6.99	0.790	493	73	18.45	-120.9	grey	none
1235	26	--	--	3.00	Purged Dry							
1430	Still Dry											
1535	27	--	--	--	6.89	0.650	292.0	85.4	18.39	-122.2	grey	none

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Groundwater Purging and Sampling Form

Project No. 30218263 | Well ID DPT-4 (20-22) | Date 10/25/2024

Project Name/Location Former Commander Oil Terminall Offsite Investigation | Weather --

Measuring Pt. Description: TIC | Screen Setting (ft-bgs): 20-22 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-btoc): 7.7 | Total Depth (ft-btoc): 21.4 | Water Column (ft.): 13.7 | Gallons in Well: 0.548

MP Elevation: --- | Pump Intake (ft-btoc): 21.4 | Purge Method: Peristaltic X, Submersible, Bladder | Sample Method: Grab

Pump On/Off: 1430/1515

Sample Time: Label 1510, Start 1510, End 1515 | Volumes Purged: -- | Gallons Purged: -- | Sample ID: DPT-4(20-22)GW102524 | Replicate/Code No: -- | Sampled by: MT

Time	Minutes Elapsed	Rate (gpm/**mL/min**)	Depth to Water (ft.)	Gallons Purged	pH ± 0.1	Cond. (µMhos)/ **(ms/cm)** ± 3%	Turbidity (NTU) ± 10%	DO (%) ± 10%	Temp. (°C) ± 3%	Redox (mV) ± 10 mV	Appearance	
											Color	Odor
1515	--	--	--	--	7.18	0.210	1222.8	82.7	18.27	-168.6	Orange	None

Constituents Sampled	**Container**	**Number**	**Preservative**
VOC 8260	40 mL VOA	3	HCl
SVOCs 8270	100 mL Amber	2	None

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: NA | Well Locked at Arrival: NA

Condition of Well: NA | Well Locked at Departure: NA

Well Completion: NA | Key Number To Well: NA

Appendix F

Soil Vapor Field Sampling Forms

Soil-Vapor Sample Log

Sample ID	SG-1	Project/No.	FCOT - Off-Site SC
Date	11/12/2024	Sampling Personnel	AG
Time	0800		
Weather	50 F, partly cloudy		

DESCRIPTION OF SAMPLE LOCATION:

X	Outdoor
Location	West of Office Trailer
Est. depth to water (ft):	~4
Soil type:	Sand and Gravel
Odor:	None
Color:	NA

~~Indoor~~	
~~Location~~	
~~Basement:~~	~~yes / no~~
~~Room size ft x ft:~~	
~~Floor material:~~	~~cement / wood / dirt~~
~~Slab Thickness (ft):~~	
~~Visible cracks?:~~	~~yes / no~~
~~Sub-slab material:~~	~~dirt / gravel~~

PROBE INSTALLATION:

Date:	**10/23/2024**
Method:	**Direct Push**
Diameter:	**1/2"**
Depth:	**2.5-3.0'**
Packing material:	**Glass beads**

Location Sketch:
See Figure 1 of SC Report

PURGE:

Date:	**--**
Time:	**--**
Rate:	**--**
Volume:	**--**

SAMPLE COLLECTION:

Sample Time:	**0835 / 1033**
Sample Rate:	**3 L/hr**
Sample Volume:	6 L

CONTAINER DESCRIPTION:

__6___ L Summa Canister

DUP-20241112 Collected here

Cannister ID:	49589 / 42846
Flow Controller ID:	01715 / 01921
Start Pressure:	30.14 / 30.03
End Pressure:	4.55 / 4.34

Helium Test @ 0805, 172 ppm detected, Test Pass

ARCADIS

Soil-Vapor Sample Log

Sample ID	SG-2	Project/No.	FCOT - Off-Site SC
Date	11/12/2024	Sampling Personnel	AG
Time	0815		
Weather	50 F, partly cloudy		

DESCRIPTION OF SAMPLE LOCATION:

X	Outdoor
Location	N of Office Trailer in PK Lot
Est. depth to water (ft):	~4
Soil type:	Sand and Gravel
Odor:	None
Color:	NA

	Indoor
Location	
Basement:	yes / no
Room size ft x ft:	
Floor material:	cement / wood / dirt
Slab Thickness (ft):	
Visible cracks?:	yes / no
Sub-slab material:	dirt / gravel

PROBE INSTALLATION:

Date:	**10/22/2024**
Method:	**Direct Push**
Diameter:	**1/2"**
Depth:	**2.5-3.0'**
Packing material:	**Glass beads**

Location Sketch:
See Figure 1 of SC Report

PURGE:

Date:	**--**
Time:	**--**
Rate:	**--**
Volume:	**--**

SAMPLE COLLECTION:

Sample Time:	**0836 / 1031**
Sample Rate:	**3 L/hr**
Sample Volume:	6 L

CONTAINER DESCRIPTION:

__6___ L Summa Canister

Cannister ID:	31473
Flow Controller ID:	0374
Start Pressure:	29.71
End Pressure:	4.03

Helium Test @ 0817, 85 ppm detected, Test Pass

Appendix G

Photolog

Photograph Log

NYSDEC
Former Commander Oil Terminal Off-Site Site Characterization Report
30218263

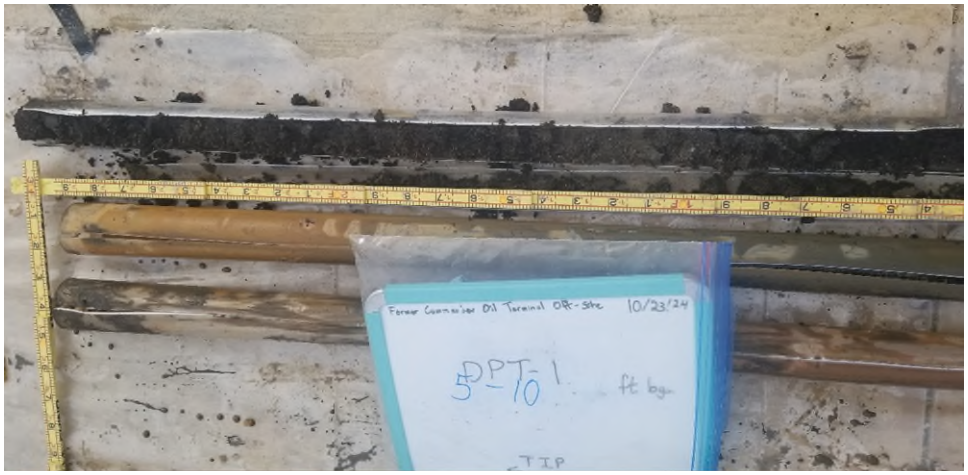
Photograph: 1

Description:
Representative gravelly sand, DPT-2 (15-20 ft. bgs)

Location:
DPT-2, west of office trailer, near southern site boundary

Photograph taken by:
M.Tucker

Date: 10/23/2024



Photograph: 2

Description:
Representative peat 'bog layer', DPT-1 (5-10 ft. bgs)

Location:
DPT-1, west of office trailer, in landscape contactor parking space

Photograph taken by:
M.Tucker

Date: 10/23/2024

Photograph Log

NYSDEC
Former Commander Oil Terminal Off-Site Site Characterization Report
30218263

Photograph: 3

Description:
Representative Silty clay at MW-3 (20-25 ft. bgs)

Location:
MW-3, east of loading dock and west of ramp

Photograph taken by:
M.Tucker

Date: 10/24/2024

Photograph: 4

Description:
SDMT-3 and SW-3 sampling location, under dock, low tide

Location:
East of Former Commander Oil Terminal Seawall

Photograph taken by:
M.Tucker

Date: 10/29/2024

Photograph Log

NYSDEC
Former Commander Oil Terminal Off-Site Site Characterization Report
30218263

Photograph: 5

Description:
Drum staging area

Location:
South of loading dock, north of office trailer

Photograph taken by:
M.Tucker

Date: 11/12/2024

Photograph: 6

Description:
MW-1 multi-level well surface completion

Location:
In landscape contractor parking space, north of southern site boundary

Photograph taken by:
M.Tucker

Date: 10/30/2024

Photograph Log

NYSDEC
Former Commander Oil Terminal Off-Site Site Characterization Report
30218263

Photograph: 7

Description:
MW-2 multi-level well surface completion

Location:

Photograph taken by:
M.Tucker

Date: 10/30/2024

Photograph: 8

Description:
MW-3 multi-level well surface completion

Location:
West of ramp, south of loading dock, north of office trailer

Photograph taken by:
M.Tucker

Date: 10/30/2024

Photograph Log

NYSDEC
Former Commander Oil Terminal Off-Site Site Characterization Report
30218263

Photograph: 9

Description:
MW-4 multi-level well surface completion

Location:
West side of site in pavement near contractor workshop

Photograph taken by:
M.Tucker

Date: 10/30/2024

Photograph: 10

Description:
SG-1 surface completion

Location:
Northwest of office trailer

Photograph taken by:
M.Tucker

Date: 10/30/2024

Photograph Log

NYSDEC
Former Commander Oil Terminal Off-Site Site Characterization Report
30218263

Photograph: 11

Description:
SG-2 Surface completion

Location:
North of trailer in parking lot

Photograph taken by:
M.Tucker

Date: 10/30/2024

Appendix H

Investigation Derived Waste Disposal Manifest

VEOLIA
ENVIRONMENTAL SERVICES

8

SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number
	CESQG	1	(877) 818-0087	ZZ 01125242

5. Generator's Name and Mailing Address — Generator's Site Address (if different than mailing address)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMI:
2 BAYVIEW AVENUE
OYSTER BAY, NY 11771

Generator's Phone: 518 402-9739

6. Transporter 1 Company Name: VEOLIA ES TECHNICAL SOLUTIONS — U.S. EPA ID Number: NJD080613369

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: VEOLIA ES TECHNICAL SOLUTIONS
125 FACTORY LANE
MIDDLESEX, NJ 08846 — U.S. EPA ID Number: NJD002454544

Facility's Phone: 732 469-5100

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10 Containers No.	10 Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13 Codes
	1. NON-RCRA LIQUID, n.o.s.	3	DM	1200	P	ID22 B
	2. NON-RCRA SOLID, n.o.s.	5	DM	2000	P	ID27 L
	3					
	4.					

14. Special Handling Instructions and Additional Information: ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) A.MARCSWFUEL 2) A.MARDEBRIS

11/25

15. **GENERATOR S/OFFEROR S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] on behalf of NYSDEC — Signature: [illegible] on behalf of NYSDEC — Month 01 Day 16 Year 25

INT'L

16 International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17 Transporter Acknowledgment of Receipt of Shipment

Transporter 1 Printed/Typed Name: Carlos Ettler — Signature: [signature] — Month 01 Day 16 Year 25

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Shipping Document Tracking Number:

18b Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19 Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061	H141		

20 Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a

Printed/Typed Name: April Cuttkins — Signature: [signature] — Month 1 Day 17 Year 25

DESIGNATED FACILITY TO GENERATOR

Appendix I

Laboratory Analytical Reports

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

November 19, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24J3305

Enclosed are results of analyses for samples as received by the laboratory on October 22, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 11/19/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J3305

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

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1(5-6)102124	24J3305-01	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
MW-1(20-22.5)102124	24J3305-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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CASE NARRATIVE SUMMARY

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

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

SW-846 8081B

Qualifications:

V-05

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

Analyte & Samples(s) Qualified:

Endrin
B391053-MS1, B391053-MSD1

SW-846 8260D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Chloromethane
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390287-BS1, B390287-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:

Carbon Disulfide
B390287-BSD1

Chloroethane
B390287-BSD1

V-05

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

Analyte & Samples(s) Qualified:

Chloromethane
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390287-BLK1, B390287-BS1, B390287-BSD1, S112733-CCV1

Dichlorodifluoromethane (Freon 12)
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390287-BLK1, B390287-BS1, B390287-BSD1, S112733-CCV1

Ethanol
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390287-BLK1, B390287-BS2, B390287-BSD2, S112733-CCV2

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24J3305-01RE1[MW-1(5-6)102124]

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:

3,3-Dichlorobenzidine
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390240-BLK1, B390240-BS1, B390240-BSD1, B390240-MS1, B390240-MSD1

Pyridine
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390240-BLK1, B390240-BS1, B390240-BSD1, B390240-MS1, B390240-MSD1

L-07A

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
B390901-BSD1

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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:

3,3-Dichlorobenzidine
B390240-MS1, B390240-MSD1

3-Nitroaniline
B390240-MS1, B390240-MSD1

4-Chloroaniline
B390240-MS1, B390240-MSD1

Aniline
B390240-MS1, B390240-MSD1

Hexachlorocyclopentadiene
B390240-MS1, B390240-MSD1

Pyridine
B390240-MS1, B390240-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B390240-MSD1

2-Methylnaphthalene
B390240-MSD1

Chrysene
B390240-MS1

R-05

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
24J3305-01[MW-1(5-6)102124], B390901-BLK1, B390901-BS1

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:

2,3,4,6-Tetrachlorophenol
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390240-BLK1, B390240-BS1, B390240-BSD1, B390240-MS1, B390240-MSD1, S112738-CCV2

2,4-Dinitrophenol
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390240-BLK1, B390240-BS1, B390240-BSD1, B390240-MS1, B390240-MSD1, S112738-CCV1

Benzaldehyde
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390240-BLK1, B390240-BS1, B390240-BSD1, B390240-MS1, B390240-MSD1, S112738-CCV2

V-20

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

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
S112738-CCV1

N-Nitrosodiphenylamine/Diphenylamine
S112738-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
24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124], B390240-BLK1, B390240-BS1, B390240-BSD1, B390240-MS1, B390240-MSD1, S 110946-ICV1, S112738-CCV1

SW-846 9014

Qualifications:

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H-01

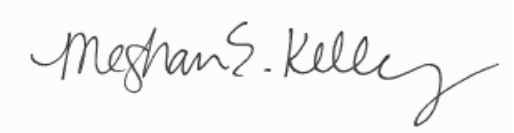
Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

Cyanide

24J3305-01[MW-1(5-6)102124], 24J3305-02[MW-1(20-22.5)102124]

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.



Meghan E. Kelley
Reporting Specialist

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	0.044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Benzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromochloromethane	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromodichloromethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromoform	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Bromomethane	ND	0.0085	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
2-Butanone (MEK)	ND	0.034	0.0072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Butyl Alcohol (TBA)	ND	0.085	0.035	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
n-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
sec-Butylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Butylbenzene	ND	0.0017	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Carbon Disulfide	ND	0.017	0.0085	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Carbon Tetrachloride	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chlorobenzene	ND	0.0017	0.00041	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chlorodibromomethane	ND	0.00085	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chloroform	ND	0.0034	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Chloromethane	ND	0.0085	0.0010	mg/Kg dry	1	V-05, L-04	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Cyclohexane	ND	0.0085	0.0035	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0034	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00074	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1-Dichloroethane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dichloroethane	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1-Dichloroethylene	ND	0.0034	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
cis-1,2-Dichloroethylene	0.0022	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2-Dichloropropane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
cis-1,3-Dichloropropene	ND	0.00085	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
trans-1,3-Dichloropropene	ND	0.00085	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Ethanol	ND	0.17	0.034	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Ethylbenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
2-Hexanone (MBK)	ND	0.017	0.0058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
p-Isopropyltoluene (p-Cymene)	0.012	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Methyl Cyclohexane	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Methylene Chloride	ND	0.017	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Naphthalene	ND	0.0034	0.00084	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
n-Propylbenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Styrene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.00085	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Tetrachloroethylene	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Toluene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Trichloroethylene	ND	0.0017	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0085	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00082	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Vinyl Chloride	0.0014	0.0085	0.00066	mg/Kg dry	1	J	SW-846 8260D	10/24/24	10/24/24 8:09	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
o-Xylene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/24/24 8:09
Toluene-d8	98.5	70-130		10/24/24 8:09
4-Bromofluorobenzene	97.9	70-130		10/24/24 8:09

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Atrazine	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Biphenyl	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Caprolactam	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Acenaphthene	ND	0.20	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Acenaphthylene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Anthracene	ND	0.20	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(a)anthracene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(a)pyrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(b)fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(g,h,i)perylene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Benzo(k)fluoranthene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Butylbenzylphthalate	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Carbazole	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Chrysene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Dibenz(a,h)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
3,3-Dichlorobenzidine	ND	0.20	0.084	mg/Kg dry	1	L-04	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dimethylphenol	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4-Dinitrotoluene	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Fluoranthene	ND	0.20	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Fluorene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Isophorone	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
1-Methylnaphthalene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Methylnaphthalene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
3/4-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Naphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Nitroaniline	ND	0.39	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Nitroaniline	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Pyrene	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
Pyridine	ND	0.39	0.046	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/23/24	10/24/24 13:47	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 13:47	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.0	30-130		10/24/24 13:47
Phenol-d6	42.6	30-130		10/24/24 13:47
Nitrobenzene-d5	53.2	30-130		10/24/24 13:47
2-Fluorobiphenyl	48.2	30-130		10/24/24 13:47
2,4,6-Tribromophenol	50.7	30-130		10/24/24 13:47
p-Terphenyl-d14	54.9	30-130		10/24/24 13:47

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.058	0.046	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 15:34	GJB
1,4-Dioxane	ND	0.057	0.045	mg/Kg dry	1		SW-846 8270E	11/12/24	11/13/24 21:33	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	37.8	15-110		11/13/24 21:33
1,4-Dioxane-d8	64.4	15-110		11/12/24 15:34

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	0.023	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1221 [1]	ND	0.093	0.043	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1232 [1]	ND	0.093	0.023	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1242 [1]	ND	0.093	0.026	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1248 [1]	ND	0.093	0.022	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1254 [1]	ND	0.093	0.028	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1260 [1]	ND	0.093	0.019	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1262 [1]	ND	0.093	0.024	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG
Aroclor-1268 [1]	ND	0.093	0.024	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.7	30-150		10/28/24 21:38
Decachlorobiphenyl [2]	90.8	30-150		10/28/24 21:38
Tetrachloro-m-xylene [1]	101	30-150		10/28/24 21:38
Tetrachloro-m-xylene [2]	99.6	30-150		10/28/24 21:38

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(5-6)102124 | Sampled: 10/21/2024 13:00

Sample ID: 24J3305-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0			% Wt	1		SM 2540G	10/23/24	10/23/24 10:00	MLR
Cyanide	ND	0.55	0.42	mg/Kg dry	1	H-01	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.082	0.043	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Amyl Alcohol (TAA)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00082	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Benzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromochloromethane	ND	0.0016	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromodichloromethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromoform	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Bromomethane	ND	0.0082	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
2-Butanone (MEK)	ND	0.033	0.0069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.082	0.034	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
n-Butylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
sec-Butylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Butylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00082	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Carbon Disulfide	ND	0.016	0.0083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Carbon Tetrachloride	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chlorobenzene	ND	0.0016	0.00040	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chlorodibromomethane	ND	0.00082	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chloroethane	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chloroform	ND	0.0033	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Chloromethane	ND	0.0082	0.0010	mg/Kg dry	1	L-04, V-05	SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Cyclohexane	ND	0.0082	0.0033	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0033	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00082	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00072	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1-Dichloroethane	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dichloroethane	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1-Dichloroethylene	ND	0.0033	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2-Dichloropropane	ND	0.0016	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
cis-1,3-Dichloropropene	ND	0.00082	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
trans-1,3-Dichloropropene	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Diisopropyl Ether (DIPE)	ND	0.00082	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Ethanol	ND	0.16	0.033	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Ethylbenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
2-Hexanone (MBK)	ND	0.016	0.0056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Methyl Cyclohexane	ND	0.0016	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Methylene Chloride	ND	0.016	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Naphthalene	ND	0.0033	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
n-Propylbenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Styrene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00082	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Tetrachloroethylene	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Toluene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Trichloroethylene	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0082	0.00097	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0082	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Vinyl Chloride	ND	0.0082	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
m+p Xylene	ND	0.0033	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
o-Xylene	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF
Xylenes (total)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 8:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		10/24/24 8:35
Toluene-d8	100	70-130		10/24/24 8:35
4-Bromofluorobenzene	95.4	70-130		10/24/24 8:35

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.73	0.050	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Atrazine	ND	0.73	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzaldehyde	ND	0.37	0.059	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Biphenyl	ND	0.73	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Caprolactam	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Acetophenone	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Aniline	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Anthracene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(a)anthracene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(a)pyrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(b)fluoranthene	ND	0.19	0.030	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(g,h,i)perylene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Benzo(k)fluoranthene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Bis(2-chloroethoxy)methane	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Bis(2-chloroethyl)ether	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Bromophenylphenylether	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Butylbenzylphthalate	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Chloroaniline	ND	0.72	0.066	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Chloro-3-methylphenol	ND	0.72	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Chloronaphthalene	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Chlorophenol	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Chlorophenylphenylether	ND	0.37	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Chrysene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Dibenz(a,h)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Dibenzofuran	ND	0.37	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Di-n-butylphthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
3,3-Dichlorobenzidine	ND	0.19	0.080	mg/Kg dry	1	L-04	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Diethylphthalate	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dimethylphenol	ND	0.37	0.086	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Dimethylphthalate	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4,6-Dinitro-2-methylphenol	ND	0.37	0.29	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dinitrophenol	ND	0.72	0.29	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4-Dinitrotoluene	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,6-Dinitrotoluene	ND	0.37	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Di-n-octylphthalate	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Fluorene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Hexachlorobenzene	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Hexachlorocyclopentadiene	ND	0.37	0.24	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Hexachloroethane	ND	0.37	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Isophorone	ND	0.37	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
1-Methylnaphthalene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Methylphenol	ND	0.37	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
3/4-Methylphenol	ND	0.37	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Naphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Nitroaniline	ND	0.37	0.045	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
3-Nitroaniline	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Nitroaniline	ND	0.37	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Nitrobenzene	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2-Nitrophenol	ND	0.37	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
4-Nitrophenol	ND	0.72	0.099	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
N-Nitrosodi-n-propylamine	ND	0.37	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Pentachlorophenol	ND	0.37	0.13	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Phenanthrene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Phenol	ND	0.37	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Pyrene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
Pyridine	ND	0.37	0.043	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/23/24	10/24/24 14:11	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4,5-Trichlorophenol	ND	0.37	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC
2,4,6-Trichlorophenol	ND	0.37	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 14:11	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.7	30-130		10/24/24 14:11
Phenol-d6	51.1	30-130		10/24/24 14:11
Nitrobenzene-d5	52.7	30-130		10/24/24 14:11
2-Fluorobiphenyl	51.2	30-130		10/24/24 14:11
2,4,6-Tribromophenol	56.3	30-130		10/24/24 14:11
p-Terphenyl-d14	55.9	30-130		10/24/24 14:11

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.0024	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
gamma-Chlordane [1]	ND	0.0052	0.0023	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Aldrin [1]	ND	0.0052	0.00051	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
alpha-BHC [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
beta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
delta-BHC [1]	ND	0.0052	0.0028	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
4,4'-DDD [1]	ND	0.0042	0.00088	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
4,4'-DDE [1]	ND	0.0042	0.00046	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
4,4'-DDT [1]	ND	0.0042	0.00054	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Dieldrin [1]	ND	0.0042	0.00050	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endosulfan I [1]	ND	0.0052	0.0025	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endosulfan II [1]	ND	0.0083	0.0022	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endosulfan sulfate [1]	ND	0.0083	0.0020	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endrin [2]	ND	0.0083	0.0022	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Endrin aldehyde [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 21:51	TG
Endrin ketone [1]	ND	0.0083	0.0021	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Heptachlor [1]	ND	0.0052	0.00057	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Heptachlor epoxide [1]	ND	0.0052	0.00060	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Methoxychlor [1]	ND	0.052	0.0062	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG
Toxaphene [1]	ND	0.10	0.043	mg/Kg dry	1		SW-846 8081B	10/31/24	11/8/24 17:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		11/8/24 17:44
Decachlorobiphenyl [1]	95.4	30-150		11/8/24 21:51
Decachlorobiphenyl [2]	92.8	30-150		11/8/24 17:44
Decachlorobiphenyl [2]	94.1	30-150		11/8/24 21:51
Tetrachloro-m-xylene [1]	72.1	30-150		11/8/24 21:51
Tetrachloro-m-xylene [1]	71.7	30-150		11/8/24 17:44
Tetrachloro-m-xylene [2]	74.8	30-150		11/8/24 21:51
Tetrachloro-m-xylene [2]	74.2	30-150		11/8/24 17:44

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1300	19	5.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Antimony	ND	1.9	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Arsenic	0.97	3.7	0.52	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/7/24 10:58	MJH
Barium	5.5	1.9	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Beryllium	0.12	0.19	0.056	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Cadmium	ND	0.37	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Calcium	260	19	9.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Chromium	5.1	0.74	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Cobalt	1.2	1.9	0.31	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Copper	3.1	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Iron	4100	19	8.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Lead	1.9	0.56	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Magnesium	460	19	4.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Manganese	34	0.37	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Mercury	ND	0.028	0.012	mg/Kg dry	1		SW-846 7471B	11/14/24	11/15/24 11:34	AAJ
Nickel	2.2	0.74	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Potassium	230	190	46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Selenium	ND	3.7	0.92	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 10:58	MJH
Sodium	ND	190	55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Thallium	ND	1.9	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 10:58	MJH
Vanadium	6.3	0.74	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH
Zinc	5.4	0.74	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:01	MJH

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Project Location: NY | Sample Description: | Work Order: 24J3305

Date Received: 10/22/2024

Field Sample #: MW-1(20-22.5)102124 | Sampled: 10/21/2024 14:30

Sample ID: 24J3305-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7			% Wt	1		SM 2540G	10/23/24	10/23/24 10:00	MLR
Cyanide	ND	0.53	0.40	mg/Kg dry	1	H-01	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Sample Extraction Data

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3305-01 [MW-1(5-6)102124]	B390166	10/23/24
24J3305-02 [MW-1(20-22.5)102124]	B390166	10/23/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-02 [MW-1(20-22.5)102124]	B391511	1.52	50.0	11/06/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-02 [MW-1(20-22.5)102124]	B392251	0.614	50.0	11/14/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-02 [MW-1(20-22.5)102124]	B391053	10.8	10.0	10/31/24
24J3305-02RE1 [MW-1(20-22.5)102124]	B391053	10.8	10.0	10/31/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-01 [MW-1(5-6)102124]	B390367	10.1	10.0	10/25/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-01 [MW-1(5-6)102124]	B390287	6.94	10.0	10/24/24
24J3305-02 [MW-1(20-22.5)102124]	B390287	6.87	10.0	10/24/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-01 [MW-1(5-6)102124]	B390240	30.6	1.00	10/23/24
24J3305-02 [MW-1(20-22.5)102124]	B390240	30.9	1.00	10/23/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-01 [MW-1(5-6)102124]	B390901	20.1	1.00	10/30/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-01RE1 [MW-1(5-6)102124]	B392039	20.6	1.00	11/12/24

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3305-01 [MW-1(5-6)102124]	B392420	1.06	50.0	11/17/24
24J3305-02 [MW-1(20-22.5)102124]	B392420	1.07	50.0	11/17/24

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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 B390287 - SW-846 5035										
Blank (B390287-BLK1)				Prepared & Analyzed: 10/24/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							V-05
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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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 B390287 - SW-846 5035												
Blank (B390287-BLK1)				Prepared & Analyzed: 10/24/24								
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Xylenes (total)	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0505*		mg/Kg wet	0.05000		101		70-130				
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.05000		99.4		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0478*		mg/Kg wet	0.05000		95.5		70-130				
LCS (B390287-BS1)				Prepared & Analyzed: 10/24/24								
Acetone	0.238	0.10	mg/Kg wet	0.2000		119		70-160				†
tert-Amyl Alcohol (TAA)	0.173	0.020	mg/Kg wet	0.2000		86.6		70-130				
tert-Amyl Ethyl Ether (TAEE)	0.0161	0.0020	mg/Kg wet	0.02000		80.4		70-130				
tert-Amyl Methyl Ether (TAME)	0.0196	0.0010	mg/Kg wet	0.02000		97.8		70-130				
Benzene	0.0165	0.0020	mg/Kg wet	0.02000		82.5		70-130				
Bromochloromethane	0.0213	0.0020	mg/Kg wet	0.02000		106		70-130				
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.02000		91.1		70-130				
Bromoform	0.0233	0.0020	mg/Kg wet	0.02000		116		70-130				
Bromomethane	0.0150	0.010	mg/Kg wet	0.02000		75.2		40-130				†
2-Butanone (MEK)	0.193	0.040	mg/Kg wet	0.2000		96.5		70-160				†
tert-Butyl Alcohol (TBA)	0.180	0.10	mg/Kg wet	0.2000		90.1		40-130				†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.2		70-130				
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.02000		108		70-130				
tert-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.02000		106		70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.02000		93.8		70-130				
Carbon Disulfide	0.0146	0.020	mg/Kg wet	0.02000		72.8		70-130			J	
Carbon Tetrachloride	0.0197	0.0020	mg/Kg wet	0.02000		98.3		70-130				
Chlorobenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.2		70-130				
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.02000		97.1		70-130				
Chloroethane	0.0146	0.020	mg/Kg wet	0.02000		73.1		70-130			J	
Chloroform	0.0189	0.0040	mg/Kg wet	0.02000		94.5		70-130				
Chloromethane	0.0124	0.010	mg/Kg wet	0.02000		**62.2**	*	70-130			L-04, V-05	
Cyclohexane	0.0163	0.010	mg/Kg wet	0.02000		81.7		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0194	0.0040	mg/Kg wet	0.02000		96.9		70-130				
1,2-Dibromoethane (EDB)	0.0183	0.0010	mg/Kg wet	0.02000		91.3		70-130				
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.02000		99.2		70-130				
1,3-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.02000		102		70-130				
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.1		70-130				
Dichlorodifluoromethane (Freon 12)	0.0150	0.020	mg/Kg wet	0.02000		75.2		40-160			V-05, J	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.02000		94.0		70-130				
1,2-Dichloroethane	0.0165	0.0020	mg/Kg wet	0.02000		82.4		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 B390287 - SW-846 5035											
LCS (B390287-BS1)				Prepared & Analyzed: 10/24/24							
1,1-Dichloroethylene	0.0168	0.0040	mg/Kg wet	0.02000		83.8	70-130				
cis-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.02000		90.4	70-130				
trans-1,2-Dichloroethylene	0.0168	0.0020	mg/Kg wet	0.02000		84.2	70-130				
1,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.02000		88.5	70-130				
cis-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.02000		92.4	70-130				
trans-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.02000		93.1	70-130				
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.02000		93.3	70-130				
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130				
2-Hexanone (MBK)	0.191	0.020	mg/Kg wet	0.2000		95.7	70-160				†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
p-Isopropyltoluene (p-Cymene)	0.0215	0.0020	mg/Kg wet	0.02000		107	70-130				
Methyl Acetate	0.0186	0.0020	mg/Kg wet	0.02000		92.9	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0170	0.0040	mg/Kg wet	0.02000		85.0	70-130				
Methyl Cyclohexane	0.0172	0.0020	mg/Kg wet	0.02000		86.1	70-130				
Methylene Chloride	0.0158	0.020	mg/Kg wet	0.02000		79.2	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.182	0.020	mg/Kg wet	0.2000		90.9	70-160				†
Naphthalene	0.0174	0.0040	mg/Kg wet	0.02000		86.8	40-130				†
n-Propylbenzene	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130				
Styrene	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130				
1,1,2,2-Tetrachloroethane	0.0224	0.0010	mg/Kg wet	0.02000		112	70-130				
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		91.2	70-130				
Toluene	0.0167	0.0020	mg/Kg wet	0.02000		83.7	70-130				
1,2,3-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.02000		87.2	70-130				
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.02000		91.0	70-130				
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.02000		96.5	70-130				
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.02000		98.0	70-130				
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.02000		88.6	70-130				
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.02000		89.8	70-130				
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.02000		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0206	0.010	mg/Kg wet	0.02000		103	70-130				
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.02000		99.0	70-130				
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.02000		99.9	70-130				
Vinyl Chloride	0.0134	0.010	mg/Kg wet	0.02000		67.0	40-130				†
m+p Xylene	0.0388	0.0040	mg/Kg wet	0.04000		97.0	70-130				
o-Xylene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0490*		mg/Kg wet	0.05000		98.0	70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.05000		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0496*		mg/Kg wet	0.05000		99.1	70-130				
LCS (B390287-BS2)				Prepared & Analyzed: 10/24/24							
Ethanol	0.113	0.20	mg/Kg wet	0.2000		56.4	40-160			V-05, J	
Surrogate: 1,2-Dichloroethane-d4	*0.0501*		mg/Kg wet	0.05000		100	70-130				
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0488*		mg/Kg wet	0.05000		97.6	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 B390287 - SW-846 5035												
LCS Dup (B390287-BSD1)				Prepared & Analyzed: 10/24/24								
Acetone	0.209	0.10	mg/Kg wet	0.2000		104		70-160	13.3	25		†
tert-Amyl Alcohol (TAA)	0.156	0.020	mg/Kg wet	0.2000		77.8		70-130	10.8	25		
tert-Amyl Ethyl Ether (TAEE)	0.0159	0.0020	mg/Kg wet	0.02000		79.6		70-130	1.00	25		
tert-Amyl Methyl Ether (TAME)	0.0195	0.0010	mg/Kg wet	0.02000		97.4		70-130	0.410	25		
Benzene	0.0158	0.0020	mg/Kg wet	0.02000		79.2		70-130	4.08	25		
Bromochloromethane	0.0191	0.0020	mg/Kg wet	0.02000		95.7		70-130	10.5	25		
Bromodichloromethane	0.0179	0.0020	mg/Kg wet	0.02000		89.7		70-130	1.55	25		
Bromoform	0.0211	0.0020	mg/Kg wet	0.02000		106		70-130	9.82	25		
Bromomethane	0.0157	0.010	mg/Kg wet	0.02000		78.4		40-130	4.17	25		†
2-Butanone (MEK)	0.177	0.040	mg/Kg wet	0.2000		88.7		70-160	8.44	25		†
tert-Butyl Alcohol (TBA)	0.156	0.10	mg/Kg wet	0.2000		78.1		40-130	14.3	25		†
n-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.02000		93.2		70-130	5.22	25		
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.02000		103		70-130	4.66	25		
tert-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.02000		104		70-160	1.62	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0178	0.0010	mg/Kg wet	0.02000		89.2		70-130	5.03	25		
Carbon Disulfide	0.0139	0.020	mg/Kg wet	0.02000		**69.6**	*	70-130	4.49	25	L-07, J	
Carbon Tetrachloride	0.0177	0.0020	mg/Kg wet	0.02000		88.7		70-130	10.3	25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.02000		94.1		70-130	3.24	25		
Chlorodibromomethane	0.0193	0.0010	mg/Kg wet	0.02000		96.3		70-130	0.827	25		
Chloroethane	0.0132	0.020	mg/Kg wet	0.02000		**66.1**	*	70-130	10.1	25	L-07, J	
Chloroform	0.0185	0.0040	mg/Kg wet	0.02000		92.3		70-130	2.36	25		
Chloromethane	0.0113	0.010	mg/Kg wet	0.02000		**56.6**	*	70-130	9.43	25	L-04, V-05	
Cyclohexane	0.0155	0.010	mg/Kg wet	0.02000		77.3		70-130	5.53	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0196	0.0040	mg/Kg wet	0.02000		97.9		70-130	1.03	25		
1,2-Dibromoethane (EDB)	0.0171	0.0010	mg/Kg wet	0.02000		85.7		70-130	6.33	25		
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.3		70-130	0.911	25		
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		97.9		70-130	4.10	25		
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.02000		97.3		70-130	0.819	25		
Dichlorodifluoromethane (Freon 12)	0.0139	0.020	mg/Kg wet	0.02000		69.4		40-160	8.02	25	V-05, J	†
1,1-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.02000		89.5		70-130	4.90	25		
1,2-Dichloroethane	0.0164	0.0020	mg/Kg wet	0.02000		82.1		70-130	0.365	25		
1,1-Dichloroethylene	0.0162	0.0040	mg/Kg wet	0.02000		81.0		70-130	3.40	25		
cis-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.02000		88.6		70-130	2.01	25		
trans-1,2-Dichloroethylene	0.0155	0.0020	mg/Kg wet	0.02000		77.7		70-130	8.03	25		
1,2-Dichloropropane	0.0166	0.0020	mg/Kg wet	0.02000		83.1		70-130	6.29	25		
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.02000		88.8		70-130	3.97	25		
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.02000		91.5		70-130	1.73	25		
Diisopropyl Ether (DIPE)	0.0179	0.0010	mg/Kg wet	0.02000		89.6		70-130	4.05	25		
Ethylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.3		70-130	9.30	25		
2-Hexanone (MBK)	0.180	0.020	mg/Kg wet	0.2000		90.1		70-160	6.07	25		†
Isopropylbenzene (Cumene)	0.0188	0.0020	mg/Kg wet	0.02000		94.2		70-130	9.02	25		
p-Isopropyltoluene (p-Cymene)	0.0204	0.0020	mg/Kg wet	0.02000		102		70-130	4.87	25		
Methyl Acetate	0.0175	0.0020	mg/Kg wet	0.02000		87.4		70-130	6.10	25		
Methyl tert-Butyl Ether (MTBE)	0.0169	0.0040	mg/Kg wet	0.02000		84.7		70-130	0.354	25		
Methyl Cyclohexane	0.0160	0.0020	mg/Kg wet	0.02000		79.9		70-130	7.47	25		
Methylene Chloride	0.0155	0.020	mg/Kg wet	0.02000		77.4		40-160	2.30	25	J	†
4-Methyl-2-pentanone (MIBK)	0.177	0.020	mg/Kg wet	0.2000		88.6		70-160	2.51	25		†
Naphthalene	0.0173	0.0040	mg/Kg wet	0.02000		86.3		40-130	0.578	25		†
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.3		70-130	8.04	25		
Styrene	0.0199	0.0020	mg/Kg wet	0.02000		99.4		70-130	1.60	25		
1,1,2,2-Tetrachloroethane	0.0214	0.0010	mg/Kg wet	0.02000		107		70-130	4.66	25		
Tetrachloroethylene	0.0172	0.0020	mg/Kg wet	0.02000		85.9		70-130	5.99	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 B390287 - SW-846 5035										
LCS Dup (B390287-BSD1)				Prepared & Analyzed: 10/24/24						
Toluene	0.0160	0.0020	mg/Kg wet	0.02000		80.0	70-130	4.52	25	
1,2,3-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.02000		88.8	70-130	1.82	25	
1,2,4-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.02000		89.1	70-130	2.11	25	
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.02000		91.4	70-130	5.43	25	
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	3.02	25	
Trichloroethylene	0.0170	0.0020	mg/Kg wet	0.02000		84.9	70-130	4.27	25	
Trichlorofluoromethane (Freon 11)	0.0169	0.010	mg/Kg wet	0.02000		84.7	70-130	5.85	25	
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.02000		97.2	70-130	7.33	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0205	0.010	mg/Kg wet	0.02000		102	70-130	0.779	25	
1,2,4-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.5	70-130	2.56	25	
1,3,5-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.6	70-130	3.36	25	
Vinyl Chloride	0.0130	0.010	mg/Kg wet	0.02000		65.1	40-130	2.88	25	†
m+p Xylene	0.0374	0.0040	mg/Kg wet	0.04000		93.6	70-130	3.57	25	
o-Xylene	0.0190	0.0020	mg/Kg wet	0.02000		94.8	70-130	5.84	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0490*		mg/Kg wet	0.05000		98.0	70-130			
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0486*		mg/Kg wet	0.05000		97.2	70-130			
LCS Dup (B390287-BSD2)				Prepared & Analyzed: 10/24/24						
Ethanol	0.0971	0.20	mg/Kg wet	0.2000		48.5	40-160	14.9	25	V-05, J
Surrogate: 1,2-Dichloroethane-d4	*0.0502*		mg/Kg wet	0.05000		100	70-130			
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.05000		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0488*		mg/Kg wet	0.05000		97.5	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390240 - SW-846 3546										
Blank (B390240-BLK1)				Prepared: 10/23/24 Analyzed: 10/24/24						
2,3,4,6-Tetrachlorophenol	ND	0.66	mg/Kg wet							V-05
Atrazine	ND	0.66	mg/Kg wet							
Benzaldehyde	ND	0.33	mg/Kg wet							V-05
Biphenyl	ND	0.66	mg/Kg wet							
Caprolactam	ND	0.33	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.33	mg/Kg wet							
Aniline	ND	0.33	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet							
2,2'-oxybis(1-Chloropropane)	ND	0.33	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet							
4-Bromophenylphenylether	ND	0.33	mg/Kg wet							
Butylbenzylphthalate	ND	0.33	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.65	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.65	mg/Kg wet							
2-Chloronaphthalene	ND	0.33	mg/Kg wet							
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							L-04
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.65	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							

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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 B390240 - SW-846 3546											
Blank (B390240-BLK1)				Prepared: 10/23/24 Analyzed: 10/24/24							
3/4-Methylphenol	ND	0.33	mg/Kg wet								
Naphthalene	ND	0.17	mg/Kg wet								
2-Nitroaniline	ND	0.33	mg/Kg wet								
3-Nitroaniline	ND	0.33	mg/Kg wet								
4-Nitroaniline	ND	0.33	mg/Kg wet								
Nitrobenzene	ND	0.33	mg/Kg wet								
2-Nitrophenol	ND	0.33	mg/Kg wet								
4-Nitrophenol	ND	0.65	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet								
Pentachlorophenol	ND	0.33	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.33	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.33	mg/Kg wet							L-04, V-34	
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet								
Surrogate: 2-Fluorophenol	*3.77*		mg/Kg wet	6.536		57.7	30-130				
Surrogate: Phenol-d6	*3.66*		mg/Kg wet	6.536		56.0	30-130				
Surrogate: Nitrobenzene-d5	*2.00*		mg/Kg wet	3.268		61.3	30-130				
Surrogate: 2-Fluorobiphenyl	*1.90*		mg/Kg wet	3.268		58.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.10*		mg/Kg wet	6.536		62.7	30-130				
Surrogate: p-Terphenyl-d14	*2.19*		mg/Kg wet	3.268		67.0	30-130				
LCS (B390240-BS1)				Prepared: 10/23/24 Analyzed: 10/24/24							
2,3,4,6-Tetrachlorophenol	1.03	0.66	mg/Kg wet	1.635		62.9	40-140			V-05	
Atrazine	1.39	0.66	mg/Kg wet	1.635		85.0	40-140				
Benzaldehyde	1.13	0.33	mg/Kg wet	1.635		69.0	40-140			V-05	
Biphenyl	1.20	0.66	mg/Kg wet	1.635		73.5	40-140				
Caprolactam	1.33	0.33	mg/Kg wet	1.635		81.3	40-140				
Acenaphthene	0.922	0.17	mg/Kg wet	1.635		56.4	40-140				
Acenaphthylene	0.945	0.17	mg/Kg wet	1.635		57.8	40-140				
Acetophenone	1.09	0.33	mg/Kg wet	1.635		66.9	40-140				
Aniline	0.832	0.33	mg/Kg wet	1.635		50.9	10-140				†
Anthracene	0.968	0.17	mg/Kg wet	1.635		59.2	40-140				
Benzo(a)anthracene	0.898	0.17	mg/Kg wet	1.635		54.9	40-140				
Benzo(a)pyrene	0.917	0.17	mg/Kg wet	1.635		56.1	40-140				
Benzo(b)fluoranthene	0.922	0.17	mg/Kg wet	1.635		56.4	40-140				
Benzo(g,h,i)perylene	1.05	0.17	mg/Kg wet	1.635		64.1	40-140				
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.635		62.9	40-140				
Bis(2-chloroethoxy)methane	0.980	0.33	mg/Kg wet	1.635		59.9	40-140				
Bis(2-chloroethyl)ether	1.12	0.33	mg/Kg wet	1.635		68.6	40-140				
2,2'-oxybis(1-Chloropropane)	1.07	0.33	mg/Kg wet	1.635		65.4	40-140				
Bis(2-Ethylhexyl)phthalate	1.01	0.33	mg/Kg wet	1.635		62.0	40-140				
4-Bromophenylphenylether	1.05	0.33	mg/Kg wet	1.635		64.0	40-140				
Butylbenzylphthalate	1.01	0.33	mg/Kg wet	1.635		61.8	40-140				
Carbazole	0.925	0.17	mg/Kg wet	1.635		56.6	40-140				
4-Chloroaniline	0.475	0.65	mg/Kg wet	1.635		29.0	10-140			J	†
4-Chloro-3-methylphenol	0.985	0.65	mg/Kg wet	1.635		60.2	30-130				
2-Chloronaphthalene	0.830	0.33	mg/Kg wet	1.635		50.7	40-140				
2-Chlorophenol	0.860	0.33	mg/Kg wet	1.635		52.6	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B390240 - SW-846 3546												
LCS (B390240-BS1)				Prepared: 10/23/24 Analyzed: 10/24/24								
4-Chlorophenylphenylether	0.992	0.33	mg/Kg wet	1.635		60.7		40-140				
Chrysene	0.838	0.17	mg/Kg wet	1.635		51.3		40-140				
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.635		64.0		40-140				
Dibenzofuran	0.941	0.33	mg/Kg wet	1.635		57.6		40-140				
Di-n-butylphthalate	1.05	0.33	mg/Kg wet	1.635		64.5		40-140				
3,3-Dichlorobenzidine	0.300	0.17	mg/Kg wet	1.635		**18.3**	*	20-140			L-04	†
2,4-Dichlorophenol	0.897	0.33	mg/Kg wet	1.635		54.8		30-130				
Diethylphthalate	1.03	0.33	mg/Kg wet	1.635		62.8		40-140				
2,4-Dimethylphenol	0.966	0.33	mg/Kg wet	1.635		59.1		30-130				
Dimethylphthalate	1.01	0.33	mg/Kg wet	1.635		61.5		40-140				
4,6-Dinitro-2-methylphenol	0.826	0.33	mg/Kg wet	1.635		50.5		30-130				
2,4-Dinitrophenol	0.769	0.65	mg/Kg wet	1.635		47.1		30-130			V-05	
2,4-Dinitrotoluene	0.921	0.33	mg/Kg wet	1.635		56.3		40-140				
2,6-Dinitrotoluene	1.01	0.33	mg/Kg wet	1.635		61.6		40-140				
Di-n-octylphthalate	1.09	0.33	mg/Kg wet	1.635		66.4		40-140				
Fluoranthene	0.954	0.17	mg/Kg wet	1.635		58.3		40-140				
Fluorene	0.894	0.17	mg/Kg wet	1.635		54.7		40-140				
Hexachlorobenzene	1.02	0.33	mg/Kg wet	1.635		62.5		40-140				
Hexachlorobutadiene	0.953	0.33	mg/Kg wet	1.635		58.3		40-140				
Hexachlorocyclopentadiene	0.822	0.33	mg/Kg wet	1.635		50.3		40-140				
Hexachloroethane	0.975	0.33	mg/Kg wet	1.635		59.6		40-140				
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.635		64.7		40-140				
Isophorone	1.04	0.33	mg/Kg wet	1.635		63.7		40-140				
1-Methylnaphthalene	0.917	0.17	mg/Kg wet	1.635		56.1		40-140				
2-Methylnaphthalene	0.882	0.17	mg/Kg wet	1.635		53.9		40-140				
2-Methylphenol	0.892	0.33	mg/Kg wet	1.635		54.5		30-130				
3/4-Methylphenol	0.929	0.33	mg/Kg wet	1.635		56.8		30-130				
Naphthalene	0.880	0.17	mg/Kg wet	1.635		53.8		40-140				
2-Nitroaniline	1.05	0.33	mg/Kg wet	1.635		64.2		40-140				
3-Nitroaniline	0.696	0.33	mg/Kg wet	1.635		42.6		30-140				†
4-Nitroaniline	0.719	0.33	mg/Kg wet	1.635		44.0		40-140				
Nitrobenzene	0.953	0.33	mg/Kg wet	1.635		58.3		40-140				
2-Nitrophenol	0.849	0.33	mg/Kg wet	1.635		51.9		30-130				
4-Nitrophenol	0.761	0.65	mg/Kg wet	1.635		46.5		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.00	0.33	mg/Kg wet	1.635		61.4		40-140				
N-Nitrosodi-n-propylamine	0.976	0.33	mg/Kg wet	1.635		59.7		40-140				
Pentachlorophenol	0.792	0.33	mg/Kg wet	1.635		48.4		30-130				
Phenanthrene	0.966	0.17	mg/Kg wet	1.635		59.1		40-140				
Phenol	0.873	0.33	mg/Kg wet	1.635		53.4		30-130				
Pyrene	0.877	0.17	mg/Kg wet	1.635		53.6		40-140				
Pyridine	0.302	0.33	mg/Kg wet	1.635		**18.5**	*	30-140			J, L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.11	0.33	mg/Kg wet	1.635		68.0		40-140				
2,4,5-Trichlorophenol	0.871	0.33	mg/Kg wet	1.635		53.3		30-130				
2,4,6-Trichlorophenol	0.892	0.33	mg/Kg wet	1.635		54.6		30-130				
Surrogate: 2-Fluorophenol	*4.19*		mg/Kg wet	6.540		64.0		30-130				
Surrogate: Phenol-d6	*4.15*		mg/Kg wet	6.540		63.4		30-130				
Surrogate: Nitrobenzene-d5	*2.08*		mg/Kg wet	3.270		63.8		30-130				
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/Kg wet	3.270		63.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.18*		mg/Kg wet	6.540		63.9		30-130				
Surrogate: p-Terphenyl-d14	*2.09*		mg/Kg wet	3.270		63.9		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 B390240 - SW-846 3546												
LCS Dup (B390240-BSD1)				Prepared: 10/23/24 Analyzed: 10/24/24								
2,3,4,6-Tetrachlorophenol	1.03	0.66	mg/Kg wet	1.636		62.9		40-140	0.00184	20	V-05	
Atrazine	1.36	0.66	mg/Kg wet	1.636		83.2		40-140	2.12	30		
Benzaldehyde	1.13	0.33	mg/Kg wet	1.636		69.0		40-140	0.123	20	V-05	
Biphenyl	1.24	0.66	mg/Kg wet	1.636		75.6		40-140	2.83	20		
Caprolactam	1.36	0.33	mg/Kg wet	1.636		83.2		40-140	2.47	20		
Acenaphthene	0.946	0.17	mg/Kg wet	1.636		57.8		40-140	2.59	30		
Acenaphthylene	0.987	0.17	mg/Kg wet	1.636		60.3		40-140	4.37	30		
Acetophenone	1.05	0.33	mg/Kg wet	1.636		64.4		40-140	3.68	30		
Aniline	0.829	0.33	mg/Kg wet	1.636		50.7		10-140	0.368	50		† ‡
Anthracene	0.994	0.17	mg/Kg wet	1.636		60.7		40-140	2.60	30		
Benzo(a)anthracene	0.922	0.17	mg/Kg wet	1.636		56.4		40-140	2.65	30		
Benzo(a)pyrene	0.944	0.17	mg/Kg wet	1.636		57.7		40-140	2.91	30		
Benzo(b)fluoranthene	0.914	0.17	mg/Kg wet	1.636		55.9		40-140	0.861	30		
Benzo(g,h,i)perylene	1.09	0.17	mg/Kg wet	1.636		66.6		40-140	3.83	30		
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.636		62.3		40-140	0.861	30		
Bis(2-chloroethoxy)methane	1.01	0.33	mg/Kg wet	1.636		61.8		40-140	3.15	30		
Bis(2-chloroethyl)ether	1.13	0.33	mg/Kg wet	1.636		69.3		40-140	1.05	30		
2,2'-oxybis(1-Chloropropane)	1.05	0.33	mg/Kg wet	1.636		64.0		40-140	2.04	30		
Bis(2-Ethylhexyl)phthalate	1.04	0.33	mg/Kg wet	1.636		63.7		40-140	2.74	30		
4-Bromophenylphenylether	1.06	0.33	mg/Kg wet	1.636		64.7		40-140	1.12	30		
Butylbenzylphthalate	1.05	0.33	mg/Kg wet	1.636		63.9		40-140	3.50	30		
Carbazole	0.933	0.17	mg/Kg wet	1.636		57.0		40-140	0.840	30		
4-Chloroaniline	0.481	0.65	mg/Kg wet	1.636		29.4		10-140	1.30	30	J	†
4-Chloro-3-methylphenol	0.974	0.65	mg/Kg wet	1.636		59.5		30-130	1.10	30		
2-Chloronaphthalene	0.838	0.33	mg/Kg wet	1.636		51.2		40-140	1.05	30		
2-Chlorophenol	0.859	0.33	mg/Kg wet	1.636		52.5		30-130	0.125	30		
4-Chlorophenylphenylether	0.978	0.33	mg/Kg wet	1.636		59.8		40-140	1.50	30		
Chrysene	0.871	0.17	mg/Kg wet	1.636		53.3		40-140	3.89	30		
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.636		64.9		40-140	1.43	30		
Dibenzofuran	0.956	0.33	mg/Kg wet	1.636		58.4		40-140	1.55	30		
Di-n-butylphthalate	1.09	0.33	mg/Kg wet	1.636		66.4		40-140	3.03	30		
3,3-Dichlorobenzidine	0.308	0.17	mg/Kg wet	1.636		**18.8**	*	20-140	2.76	50	L-04	† ‡
2,4-Dichlorophenol	0.922	0.33	mg/Kg wet	1.636		56.3		30-130	2.76	30		
Diethylphthalate	1.03	0.33	mg/Kg wet	1.636		62.7		40-140	0.189	30		
2,4-Dimethylphenol	0.975	0.33	mg/Kg wet	1.636		59.6		30-130	0.942	30		
Dimethylphthalate	1.04	0.33	mg/Kg wet	1.636		63.3		40-140	2.98	30		
4,6-Dinitro-2-methylphenol	0.917	0.33	mg/Kg wet	1.636		56.1		30-130	10.5	30		
2,4-Dinitrophenol	0.683	0.65	mg/Kg wet	1.636		41.7		30-130	11.9	30	V-05	
2,4-Dinitrotoluene	0.926	0.33	mg/Kg wet	1.636		56.6		40-140	0.526	30		
2,6-Dinitrotoluene	1.02	0.33	mg/Kg wet	1.636		62.1		40-140	0.809	30		
Di-n-octylphthalate	1.12	0.33	mg/Kg wet	1.636		68.5		40-140	3.18	30		
Fluoranthene	0.960	0.17	mg/Kg wet	1.636		58.7		40-140	0.681	30		
Fluorene	0.904	0.17	mg/Kg wet	1.636		55.3		40-140	1.12	30		
Hexachlorobenzene	1.04	0.33	mg/Kg wet	1.636		63.4		40-140	1.50	30		
Hexachlorobutadiene	1.01	0.33	mg/Kg wet	1.636		61.5		40-140	5.44	30		
Hexachlorocyclopentadiene	0.856	0.33	mg/Kg wet	1.636		52.3		40-140	3.96	30		
Hexachloroethane	0.984	0.33	mg/Kg wet	1.636		60.1		40-140	0.901	30		
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.636		67.1		40-140	3.71	30		
Isophorone	1.12	0.33	mg/Kg wet	1.636		68.5		40-140	7.24	30		
1-Methylnaphthalene	0.933	0.17	mg/Kg wet	1.636		57.0		40-140	1.69	30		
2-Methylnaphthalene	0.902	0.17	mg/Kg wet	1.636		55.2		40-140	2.34	30		
2-Methylphenol	0.876	0.33	mg/Kg wet	1.636		53.6		30-130	1.75	30		

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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 B390240 - SW-846 3546												
LCS Dup (B390240-BSD1)				Prepared: 10/23/24 Analyzed: 10/24/24								
3/4-Methylphenol	0.909	0.33	mg/Kg wet	1.636		55.6		30-130	2.21	30		
Naphthalene	0.925	0.17	mg/Kg wet	1.636		56.5		40-140	4.96	30		
2-Nitroaniline	1.06	0.33	mg/Kg wet	1.636		64.8		40-140	1.09	30		
3-Nitroaniline	0.709	0.33	mg/Kg wet	1.636		43.3		30-140	1.83	30		†
4-Nitroaniline	0.741	0.33	mg/Kg wet	1.636		45.3		40-140	2.89	30		
Nitrobenzene	1.00	0.33	mg/Kg wet	1.636		61.2		40-140	4.99	30		
2-Nitrophenol	0.882	0.33	mg/Kg wet	1.636		53.9		30-130	3.81	30		
4-Nitrophenol	0.772	0.65	mg/Kg wet	1.636		47.2		30-130	1.43	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.05	0.33	mg/Kg wet	1.636		64.5		40-140	4.86	30		
N-Nitrosodi-n-propylamine	0.951	0.33	mg/Kg wet	1.636		58.1		40-140	2.68	30		
Pentachlorophenol	0.812	0.33	mg/Kg wet	1.636		49.7		30-130	2.55	30		
Phenanthrene	0.972	0.17	mg/Kg wet	1.636		59.4		40-140	0.572	30		
Phenol	0.851	0.33	mg/Kg wet	1.636		52.0		30-130	2.59	30		
Pyrene	0.928	0.17	mg/Kg wet	1.636		56.7		40-140	5.65	30		
Pyridine	0.310	0.33	mg/Kg wet	1.636		**19.0**	*	30-140	2.52	30	J, L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.18	0.33	mg/Kg wet	1.636		71.9		40-140	5.53	30		
2,4,5-Trichlorophenol	0.953	0.33	mg/Kg wet	1.636		58.2		30-130	8.96	30		
2,4,6-Trichlorophenol	0.856	0.33	mg/Kg wet	1.636		52.3		30-130	4.16	30		
Surrogate: 2-Fluorophenol	*4.09*		mg/Kg wet	6.545		62.5		30-130				
Surrogate: Phenol-d6	*4.13*		mg/Kg wet	6.545		63.2		30-130				
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.272		69.7		30-130				
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.272		65.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.19*		mg/Kg wet	6.545		64.0		30-130				
Surrogate: p-Terphenyl-d14	*2.10*		mg/Kg wet	3.272		64.2		30-130				
Matrix Spike (B390240-MS1)		**Source: 24J3305-01**		Prepared: 10/23/24 Analyzed: 10/24/24								
2,3,4,6-Tetrachlorophenol	0.878	0.77	mg/Kg dry	1.922	ND	45.7		40-140			V-05	
Atrazine	1.19	0.77	mg/Kg dry	1.922	ND	61.9		40-140				
Benzaldehyde	0.960	0.39	mg/Kg dry	1.922	ND	50.0		40-140			V-05	
Biphenyl	1.06	0.77	mg/Kg dry	1.922	ND	55.3		40-140				
Caprolactam	1.16	0.39	mg/Kg dry	1.922	ND	60.4		40-140				
Acenaphthene	0.851	0.20	mg/Kg dry	1.922	ND	44.3		40-140				
Acenaphthylene	0.884	0.20	mg/Kg dry	1.922	ND	46.0		40-140				
Acetophenone	0.929	0.39	mg/Kg dry	1.922	ND	48.3		40-140				
Aniline	0.666	0.39	mg/Kg dry	1.922	ND	**34.6**	*	40-140			MS-09	
Anthracene	0.887	0.20	mg/Kg dry	1.922	ND	46.1		40-140				
Benzo(a)anthracene	0.810	0.20	mg/Kg dry	1.922	ND	42.2		40-140				
Benzo(a)pyrene	0.852	0.20	mg/Kg dry	1.922	ND	44.4		40-140				
Benzo(b)fluoranthene	0.907	0.20	mg/Kg dry	1.922	ND	47.2		40-140				
Benzo(g,h,i)perylene	1.08	0.20	mg/Kg dry	1.922	ND	56.3		40-140				
Benzo(k)fluoranthene	0.966	0.20	mg/Kg dry	1.922	ND	50.3		40-140				
Bis(2-chloroethoxy)methane	0.849	0.39	mg/Kg dry	1.922	ND	44.2		40-140				
Bis(2-chloroethyl)ether	0.946	0.39	mg/Kg dry	1.922	ND	49.2		40-140				
2,2'-oxybis(1-Chloropropane)	0.913	0.39	mg/Kg dry	1.922	ND	47.5		40-140				
Bis(2-Ethylhexyl)phthalate	0.857	0.39	mg/Kg dry	1.922	ND	44.6		40-140				
4-Bromophenylphenylether	0.976	0.39	mg/Kg dry	1.922	ND	50.8		40-140				
Butylbenzylphthalate	0.856	0.39	mg/Kg dry	1.922	ND	44.5		40-140				
Carbazole	0.822	0.20	mg/Kg dry	1.922	ND	42.8		40-140				
4-Chloroaniline	0.555	0.76	mg/Kg dry	1.922	ND	**28.9**	*	40-140			J, MS-09	
4-Chloro-3-methylphenol	0.864	0.76	mg/Kg dry	1.922	ND	45.0		30-130				
2-Chloronaphthalene	0.787	0.39	mg/Kg dry	1.922	ND	41.0		40-140				
2-Chlorophenol	0.712	0.39	mg/Kg dry	1.922	ND	37.1		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 B390240 - SW-846 3546											
Matrix Spike (B390240-MS1)		**Source: 24J3305-01**		Prepared: 10/23/24 Analyzed: 10/24/24							
4-Chlorophenylphenylether	0.910	0.39	mg/Kg dry	1.922	ND	47.3		40-140			
Chrysene	0.766	0.20	mg/Kg dry	1.922	ND	**39.9**	*	40-140			MS-22
Dibenz(a,h)anthracene	1.01	0.20	mg/Kg dry	1.922	ND	52.7		40-140			
Dibenzofuran	0.862	0.39	mg/Kg dry	1.922	ND	44.9		40-140			
Di-n-butylphthalate	0.929	0.39	mg/Kg dry	1.922	ND	48.3		40-140			
3,3-Dichlorobenzidine	0.288	0.20	mg/Kg dry	1.922	ND	**15.0**	*	40-140			L-04, MS-09
2,4-Dichlorophenol	0.795	0.39	mg/Kg dry	1.922	ND	41.4		30-130			
Diethylphthalate	0.913	0.39	mg/Kg dry	1.922	ND	47.5		40-140			
2,4-Dimethylphenol	0.838	0.39	mg/Kg dry	1.922	ND	43.6		30-130			
Dimethylphthalate	0.917	0.39	mg/Kg dry	1.922	ND	47.7		40-140			
4,6-Dinitro-2-methylphenol	0.752	0.39	mg/Kg dry	1.922	ND	39.1		30-130			
2,4-Dinitrophenol	0.659	0.76	mg/Kg dry	1.922	ND	34.3		30-130			J, V-05
2,4-Dinitrotoluene	0.825	0.39	mg/Kg dry	1.922	ND	42.9		40-140			
2,6-Dinitrotoluene	0.848	0.39	mg/Kg dry	1.922	ND	44.1		40-140			
Di-n-octylphthalate	1.19	0.39	mg/Kg dry	1.922	ND	61.9		40-140			
Fluoranthene	0.857	0.20	mg/Kg dry	1.922	ND	44.6		40-140			
Fluorene	0.819	0.20	mg/Kg dry	1.922	ND	42.6		40-140			
Hexachlorobenzene	0.929	0.39	mg/Kg dry	1.922	ND	48.3		40-140			
Hexachlorobutadiene	0.877	0.39	mg/Kg dry	1.922	ND	45.7		40-140			
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1.922	ND		*	30-130			MS-09
Hexachloroethane	0.786	0.39	mg/Kg dry	1.922	ND	40.9		40-140			
Indeno(1,2,3-cd)pyrene	1.05	0.20	mg/Kg dry	1.922	ND	54.9		40-140			
Isophorone	0.925	0.39	mg/Kg dry	1.922	ND	48.1		40-140			
1-Methylnaphthalene	0.839	0.20	mg/Kg dry	1.922	ND	43.6		40-140			
2-Methylnaphthalene	0.789	0.20	mg/Kg dry	1.922	ND	41.1		40-140			
2-Methylphenol	0.741	0.39	mg/Kg dry	1.922	ND	38.6		30-130			
3/4-Methylphenol	0.779	0.39	mg/Kg dry	1.922	ND	40.5		30-130			
Naphthalene	0.787	0.20	mg/Kg dry	1.922	ND	41.0		40-140			
2-Nitroaniline	0.966	0.39	mg/Kg dry	1.922	ND	50.3		40-140			
3-Nitroaniline	0.666	0.39	mg/Kg dry	1.922	ND	**34.6**	*	40-140			MS-09
4-Nitroaniline	0.932	0.39	mg/Kg dry	1.922	ND	48.5		40-140			
Nitrobenzene	0.858	0.39	mg/Kg dry	1.922	ND	44.6		40-140			
2-Nitrophenol	0.617	0.39	mg/Kg dry	1.922	ND	32.1		30-130			
4-Nitrophenol	0.821	0.76	mg/Kg dry	1.922	ND	42.7		30-130			
N-Nitrosodiphenylamine/Diphenylamine	0.896	0.39	mg/Kg dry	1.922	ND	46.6		40-140			
N-Nitrosodi-n-propylamine	0.826	0.39	mg/Kg dry	1.922	ND	43.0		40-140			
Pentachlorophenol	0.666	0.39	mg/Kg dry	1.922	ND	34.6		30-130			
Phenanthrene	0.872	0.20	mg/Kg dry	1.922	ND	45.4		40-140			
Phenol	0.767	0.39	mg/Kg dry	1.922	ND	39.9		30-130			
Pyrene	0.858	0.20	mg/Kg dry	1.922	ND	44.7		40-140			
Pyridine	0.301	0.39	mg/Kg dry	1.922	ND	**15.7**	*	40-140			J, L-04, MS-09, V-34
1,2,4,5-Tetrachlorobenzene	1.02	0.39	mg/Kg dry	1.922	ND	53.0		40-140			
2,4,5-Trichlorophenol	0.803	0.39	mg/Kg dry	1.922	ND	41.8		30-130			
2,4,6-Trichlorophenol	0.771	0.39	mg/Kg dry	1.922	ND	40.1		30-130			
Surrogate: 2-Fluorophenol	*3.57*		mg/Kg dry	7.686		46.5		30-130			
Surrogate: Phenol-d6	*3.43*		mg/Kg dry	7.686		44.6		30-130			
Surrogate: Nitrobenzene-d5	*1.85*		mg/Kg dry	3.843		48.2		30-130			
Surrogate: 2-Fluorobiphenyl	*1.82*		mg/Kg dry	3.843		47.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.61*		mg/Kg dry	7.686		47.0		30-130			
Surrogate: p-Terphenyl-d14	*1.83*		mg/Kg dry	3.843		47.7		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 B390240 - SW-846 3546											
Matrix Spike Dup (B390240-MSD1)	**Source: 24J3305-01**			Prepared: 10/23/24 Analyzed: 10/24/24							
2,3,4,6-Tetrachlorophenol	0.893	0.77	mg/Kg dry	1.917	ND	46.6		40-140	1.77	30	V-05
Atrazine	1.06	0.77	mg/Kg dry	1.917	ND	55.2		40-140	11.5	30	
Benzaldehyde	0.978	0.39	mg/Kg dry	1.917	ND	51.0		40-140	1.83	30	V-05
Biphenyl	1.17	0.77	mg/Kg dry	1.917	ND	60.8		40-140	9.29	30	
Caprolactam	1.04	0.39	mg/Kg dry	1.917	ND	54.3		40-140	10.8	30	
Acenaphthene	0.826	0.20	mg/Kg dry	1.917	ND	43.1		40-140	2.98	30	
Acenaphthylene	0.849	0.20	mg/Kg dry	1.917	ND	44.3		40-140	4.04	30	
Acetophenone	0.936	0.39	mg/Kg dry	1.917	ND	48.8		40-140	0.719	30	
Aniline	0.731	0.39	mg/Kg dry	1.917	ND	**38.1**	*	40-140	9.34	30	MS-09
Anthracene	0.880	0.20	mg/Kg dry	1.917	ND	45.9		40-140	0.750	30	
Benzo(a)anthracene	0.811	0.20	mg/Kg dry	1.917	ND	42.3		40-140	0.0557	30	
Benzo(a)pyrene	0.800	0.20	mg/Kg dry	1.917	ND	41.7		40-140	6.36	30	
Benzo(b)fluoranthene	1.01	0.20	mg/Kg dry	1.917	ND	52.7		40-140	10.8	30	
Benzo(g,h,i)perylene	1.04	0.20	mg/Kg dry	1.917	ND	54.3		40-140	3.95	30	
Benzo(k)fluoranthene	1.06	0.20	mg/Kg dry	1.917	ND	55.5		40-140	9.68	30	
Bis(2-chloroethoxy)methane	0.869	0.39	mg/Kg dry	1.917	ND	45.3		40-140	2.36	30	
Bis(2-chloroethyl)ether	0.961	0.39	mg/Kg dry	1.917	ND	50.1		40-140	1.62	30	
2,2'-oxybis(1-Chloropropane)	0.933	0.39	mg/Kg dry	1.917	ND	48.7		40-140	2.10	30	
Bis(2-Ethylhexyl)phthalate	0.988	0.39	mg/Kg dry	1.917	ND	51.6		40-140	14.2	30	
4-Bromophenylphenylether	1.12	0.39	mg/Kg dry	1.917	ND	58.6		40-140	14.0	30	
Butylbenzylphthalate	0.928	0.39	mg/Kg dry	1.917	ND	48.4		40-140	8.12	30	
Carbazole	0.824	0.20	mg/Kg dry	1.917	ND	43.0		40-140	0.331	30	
4-Chloroaniline	0.595	0.76	mg/Kg dry	1.917	ND	**31.0**	*	40-140	6.92	30	J, MS-09
4-Chloro-3-methylphenol	0.772	0.76	mg/Kg dry	1.917	ND	40.3		30-130	11.3	30	
2-Chloronaphthalene	0.801	0.39	mg/Kg dry	1.917	ND	41.8		40-140	1.70	30	
2-Chlorophenol	0.750	0.39	mg/Kg dry	1.917	ND	39.1		30-130	5.23	30	
4-Chlorophenylphenylether	0.957	0.39	mg/Kg dry	1.917	ND	49.9		40-140	5.04	30	
Chrysene	0.784	0.20	mg/Kg dry	1.917	ND	40.9		40-140	2.25	30	
Dibenz(a,h)anthracene	0.997	0.20	mg/Kg dry	1.917	ND	52.0		40-140	1.68	30	
Dibenzofuran	0.865	0.39	mg/Kg dry	1.917	ND	45.1		40-140	0.261	30	
Di-n-butylphthalate	0.979	0.39	mg/Kg dry	1.917	ND	51.1		40-140	5.24	30	
3,3-Dichlorobenzidine	0.315	0.20	mg/Kg dry	1.917	ND	**16.4**	*	40-140	9.07	30	L-04, MS-09
2,4-Dichlorophenol	0.771	0.39	mg/Kg dry	1.917	ND	40.2		30-130	3.02	30	
Diethylphthalate	0.945	0.39	mg/Kg dry	1.917	ND	49.3		40-140	3.41	30	
2,4-Dimethylphenol	0.841	0.39	mg/Kg dry	1.917	ND	43.9		30-130	0.412	30	
Dimethylphthalate	0.901	0.39	mg/Kg dry	1.917	ND	47.0		40-140	1.79	30	
4,6-Dinitro-2-methylphenol	0.734	0.39	mg/Kg dry	1.917	ND	38.3		30-130	2.40	30	
2,4-Dinitrophenol	0.543	0.76	mg/Kg dry	1.917	ND	**28.3**	*	30-130	19.5	30	MS-22, V-05, J
2,4-Dinitrotoluene	0.807	0.39	mg/Kg dry	1.917	ND	42.1		40-140	2.20	30	
2,6-Dinitrotoluene	0.815	0.39	mg/Kg dry	1.917	ND	42.5		40-140	3.97	30	
Di-n-octylphthalate	1.42	0.39	mg/Kg dry	1.917	ND	74.3		40-140	17.9	30	
Fluoranthene	0.876	0.20	mg/Kg dry	1.917	ND	45.7		40-140	2.21	30	
Fluorene	0.857	0.20	mg/Kg dry	1.917	ND	44.7		40-140	4.54	30	
Hexachlorobenzene	0.972	0.39	mg/Kg dry	1.917	ND	50.7		40-140	4.58	30	
Hexachlorobutadiene	0.871	0.39	mg/Kg dry	1.917	ND	45.4		40-140	0.755	30	
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1.917	ND		*	30-130	NC	30	MS-09
Hexachloroethane	0.783	0.39	mg/Kg dry	1.917	ND	40.8		40-140	0.375	30	
Indeno(1,2,3-cd)pyrene	1.01	0.20	mg/Kg dry	1.917	ND	52.8		40-140	4.17	30	
Isophorone	0.917	0.39	mg/Kg dry	1.917	ND	47.8		40-140	0.854	30	
1-Methylnaphthalene	0.833	0.20	mg/Kg dry	1.917	ND	43.5		40-140	0.642	30	
2-Methylnaphthalene	0.759	0.20	mg/Kg dry	1.917	ND	**39.6**	*	40-140	3.90	30	MS-22
2-Methylphenol	0.755	0.39	mg/Kg dry	1.917	ND	39.4		30-130	1.88	30	

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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 B390240 - SW-846 3546											
Matrix Spike Dup (B390240-MSD1)		**Source: 24J3305-01**		Prepared: 10/23/24 Analyzed: 10/24/24							
3/4-Methylphenol	0.788	0.39	mg/Kg dry	1.917	ND	41.1		30-130	1.14	30	
Naphthalene	0.783	0.20	mg/Kg dry	1.917	ND	40.8		40-140	0.620	30	
2-Nitroaniline	0.947	0.39	mg/Kg dry	1.917	ND	49.4		40-140	1.99	30	
3-Nitroaniline	0.664	0.39	mg/Kg dry	1.917	ND	**34.7**	*	40-140	0.171	30	MS-09
4-Nitroaniline	0.911	0.39	mg/Kg dry	1.917	ND	47.5		40-140	2.31	30	
Nitrobenzene	0.847	0.39	mg/Kg dry	1.917	ND	44.2		40-140	1.22	30	
2-Nitrophenol	0.581	0.39	mg/Kg dry	1.917	ND	30.3		30-130	6.06	30	
4-Nitrophenol	0.749	0.76	mg/Kg dry	1.917	ND	39.1		30-130	9.17	30	J
N-Nitrosodiphenylamine/Diphenylamine	0.983	0.39	mg/Kg dry	1.917	ND	51.3		40-140	9.21	30	
N-Nitrosodi-n-propylamine	0.834	0.39	mg/Kg dry	1.917	ND	43.5		40-140	1.02	30	
Pentachlorophenol	0.683	0.39	mg/Kg dry	1.917	ND	35.6		30-130	2.56	30	
Phenanthrene	0.855	0.20	mg/Kg dry	1.917	ND	44.6		40-140	1.96	30	
Phenol	0.790	0.39	mg/Kg dry	1.917	ND	41.2		30-130	2.88	30	
Pyrene	0.784	0.20	mg/Kg dry	1.917	ND	40.9		40-140	8.97	30	
Pyridine	0.276	0.39	mg/Kg dry	1.917	ND	**14.4**	*	40-140	8.61	30	V-34, J, L-04, MS-09
1,2,4,5-Tetrachlorobenzene	1.05	0.39	mg/Kg dry	1.917	ND	54.6		40-140	2.86	30	
2,4,5-Trichlorophenol	0.697	0.39	mg/Kg dry	1.917	ND	36.3		30-130	14.2	30	
2,4,6-Trichlorophenol	0.778	0.39	mg/Kg dry	1.917	ND	40.6		30-130	0.812	30	
Surrogate: 2-Fluorophenol	*3.51*		mg/Kg dry	7.669		45.8		30-130			
Surrogate: Phenol-d6	*3.52*		mg/Kg dry	7.669		45.8		30-130			
Surrogate: Nitrobenzene-d5	*1.80*		mg/Kg dry	3.834		47.0		30-130			
Surrogate: 2-Fluorobiphenyl	*2.05*		mg/Kg dry	3.834		53.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.19*		mg/Kg dry	7.669		41.6		30-130			
Surrogate: p-Terphenyl-d14	*1.78*		mg/Kg dry	3.834		46.5		30-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B390901 - SW-846 3546												
Blank (B390901-BLK1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	ND	0.050	mg/Kg wet									R-05
Surrogate: 1,4-Dioxane-d8	*0.259*		mg/Kg wet	0.4978		52.1		15-110				
LCS (B390901-BS1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.507	0.050	mg/Kg wet	0.4963		102		40-140				R-05
Surrogate: 1,4-Dioxane-d8	*0.298*		mg/Kg wet	0.4963		60.0		15-110				
LCS Dup (B390901-BSD1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.830	0.050	mg/Kg wet	0.4965		**167**	*	40-140	**48.3**	*	30	L-07A
Surrogate: 1,4-Dioxane-d8	*0.210*		mg/Kg wet	0.4965		42.4		15-110				
Batch B392039 - SW-846 3546												
Blank (B392039-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	ND	0.048	mg/Kg wet									
Surrogate: 1,4-Dioxane-d8	*0.174*		mg/Kg wet	0.4794		36.3		15-110				
LCS (B392039-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	0.522	0.048	mg/Kg wet	0.4789		109		40-140				
Surrogate: 1,4-Dioxane-d8	*0.177*		mg/Kg wet	0.4789		37.0		15-110				
LCS Dup (B392039-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	0.532	0.048	mg/Kg wet	0.4794		111		40-140	1.91		30	
Surrogate: 1,4-Dioxane-d8	*0.165*		mg/Kg wet	0.4794		34.5		15-110				

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
Blank (B391053-BLK1)				Prepared: 10/31/24 Analyzed: 11/08/24						
alpha-Chlordane	ND	0.0046	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0046	mg/Kg wet							
gamma-Chlordane	ND	0.0046	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0046	mg/Kg wet							
Aldrin	ND	0.0046	mg/Kg wet							
Aldrin [2C]	ND	0.0046	mg/Kg wet							
alpha-BHC	ND	0.0046	mg/Kg wet							
alpha-BHC [2C]	ND	0.0046	mg/Kg wet							
beta-BHC	ND	0.0046	mg/Kg wet							
beta-BHC [2C]	ND	0.0046	mg/Kg wet							
delta-BHC	ND	0.0046	mg/Kg wet							
delta-BHC [2C]	ND	0.0046	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0018	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0018	mg/Kg wet							
4,4'-DDD	ND	0.0037	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDE	ND	0.0037	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDT	ND	0.0037	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0037	mg/Kg wet							
Dieldrin	ND	0.0037	mg/Kg wet							
Dieldrin [2C]	ND	0.0037	mg/Kg wet							
Endosulfan I	ND	0.0046	mg/Kg wet							
Endosulfan I [2C]	ND	0.0046	mg/Kg wet							
Endosulfan II	ND	0.0073	mg/Kg wet							
Endosulfan II [2C]	ND	0.0073	mg/Kg wet							
Endosulfan Sulfate	ND	0.0073	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0073	mg/Kg wet							
Endrin	ND	0.0073	mg/Kg wet							
Endrin [2C]	ND	0.0073	mg/Kg wet							
Endrin Aldehyde	ND	0.0073	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0073	mg/Kg wet							
Endrin Ketone	ND	0.0073	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0073	mg/Kg wet							
Heptachlor	ND	0.0046	mg/Kg wet							
Heptachlor [2C]	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0046	mg/Kg wet							
Methoxychlor	ND	0.046	mg/Kg wet							
Methoxychlor [2C]	ND	0.046	mg/Kg wet							
Toxaphene	ND	0.091	mg/Kg wet							
Toxaphene [2C]	ND	0.091	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.134*		mg/Kg wet	0.1826		73.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.1826		72.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.115*		mg/Kg wet	0.1826		62.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.118*		mg/Kg wet	0.1826		64.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
LCS (B391053-BS1)				Prepared: 10/31/24 Analyzed: 11/08/24						
alpha-Chlordane	0.073	0.0046	mg/Kg wet	0.09107		80.0	40-140			
alpha-Chlordane [2C]	0.078	0.0046	mg/Kg wet	0.09107		85.2	40-140			
gamma-Chlordane	0.072	0.0046	mg/Kg wet	0.09107		78.8	40-140			
gamma-Chlordane [2C]	0.077	0.0046	mg/Kg wet	0.09107		84.2	40-140			
Aldrin	0.072	0.0046	mg/Kg wet	0.09107		79.2	40-140			
Aldrin [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.4	40-140			
alpha-BHC	0.075	0.0046	mg/Kg wet	0.09107		82.1	40-140			
alpha-BHC [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.9	40-140			
beta-BHC	0.069	0.0046	mg/Kg wet	0.09107		75.5	40-140			
beta-BHC [2C]	0.072	0.0046	mg/Kg wet	0.09107		79.4	40-140			
delta-BHC	0.065	0.0046	mg/Kg wet	0.09107		71.0	40-140			
delta-BHC [2C]	0.066	0.0046	mg/Kg wet	0.09107		72.3	40-140			
gamma-BHC (Lindane)	0.070	0.0018	mg/Kg wet	0.09107		76.9	40-140			
gamma-BHC (Lindane) [2C]	0.073	0.0018	mg/Kg wet	0.09107		80.4	40-140			
4,4'-DDD	0.082	0.0036	mg/Kg wet	0.09107		90.5	40-140			
4,4'-DDD [2C]	0.084	0.0036	mg/Kg wet	0.09107		92.3	40-140			
4,4'-DDE	0.080	0.0036	mg/Kg wet	0.09107		87.5	40-140			
4,4'-DDE [2C]	0.082	0.0036	mg/Kg wet	0.09107		90.0	40-140			
4,4'-DDT	0.076	0.0036	mg/Kg wet	0.09107		82.9	40-140			
4,4'-DDT [2C]	0.074	0.0036	mg/Kg wet	0.09107		81.4	40-140			
Dieldrin	0.076	0.0036	mg/Kg wet	0.09107		83.4	40-140			
Dieldrin [2C]	0.080	0.0036	mg/Kg wet	0.09107		87.9	40-140			
Endosulfan I	0.073	0.0046	mg/Kg wet	0.09107		79.8	40-140			
Endosulfan I [2C]	0.078	0.0046	mg/Kg wet	0.09107		85.3	40-140			
Endosulfan II	0.073	0.0073	mg/Kg wet	0.09107		80.1	40-140			
Endosulfan II [2C]	0.079	0.0073	mg/Kg wet	0.09107		87.0	40-140			
Endosulfan Sulfate	0.065	0.0073	mg/Kg wet	0.09107		71.7	40-140			
Endosulfan Sulfate [2C]	0.073	0.0073	mg/Kg wet	0.09107		80.0	40-140			
Endrin	0.078	0.0073	mg/Kg wet	0.09107		85.5	40-140			
Endrin [2C]	0.076	0.0073	mg/Kg wet	0.09107		83.8	40-140			
Endrin Aldehyde	0.055	0.0073	mg/Kg wet	0.09107		60.8	40-140			
Endrin Aldehyde [2C]	0.062	0.0073	mg/Kg wet	0.09107		67.6	40-140			
Endrin Ketone	0.075	0.0073	mg/Kg wet	0.09107		82.3	40-140			
Endrin Ketone [2C]	0.072	0.0073	mg/Kg wet	0.09107		79.3	40-140			
Heptachlor	0.074	0.0046	mg/Kg wet	0.09107		80.9	40-140			
Heptachlor [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.7	40-140			
Heptachlor Epoxide	0.073	0.0046	mg/Kg wet	0.09107		80.5	40-140			
Heptachlor Epoxide [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.5	40-140			
Methoxychlor	0.073	0.046	mg/Kg wet	0.09107		79.7	40-140			
Methoxychlor [2C]	0.077	0.046	mg/Kg wet	0.09107		84.1	40-140			
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.1821		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.1821		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.140*		mg/Kg wet	0.1821		76.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg wet	0.1821		78.0	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
LCS Dup (B391053-BSD1)				Prepared: 10/31/24 Analyzed: 11/08/24						
alpha-Chlordane	0.065	0.0046	mg/Kg wet	0.09141		70.7	40-140	11.9	30	
alpha-Chlordane [2C]	0.069	0.0046	mg/Kg wet	0.09141		75.2	40-140	12.1	30	
gamma-Chlordane	0.064	0.0046	mg/Kg wet	0.09141		69.9	40-140	11.6	30	
gamma-Chlordane [2C]	0.068	0.0046	mg/Kg wet	0.09141		74.4	40-140	12.0	30	
Aldrin	0.063	0.0046	mg/Kg wet	0.09141		69.0	40-140	13.3	30	
Aldrin [2C]	0.066	0.0046	mg/Kg wet	0.09141		72.5	40-140	13.6	30	
alpha-BHC	0.065	0.0046	mg/Kg wet	0.09141		70.8	40-140	14.3	30	
alpha-BHC [2C]	0.066	0.0046	mg/Kg wet	0.09141		72.6	40-140	14.0	30	
beta-BHC	0.060	0.0046	mg/Kg wet	0.09141		66.1	40-140	12.9	30	
beta-BHC [2C]	0.064	0.0046	mg/Kg wet	0.09141		69.9	40-140	12.4	30	
delta-BHC	0.058	0.0046	mg/Kg wet	0.09141		63.3	40-140	11.1	30	
delta-BHC [2C]	0.059	0.0046	mg/Kg wet	0.09141		64.5	40-140	11.1	30	
gamma-BHC (Lindane)	0.061	0.0018	mg/Kg wet	0.09141		67.0	40-140	13.4	30	
gamma-BHC (Lindane) [2C]	0.064	0.0018	mg/Kg wet	0.09141		69.9	40-140	13.6	30	
4,4'-DDD	0.074	0.0037	mg/Kg wet	0.09141		80.7	40-140	11.1	30	
4,4'-DDD [2C]	0.075	0.0037	mg/Kg wet	0.09141		82.2	40-140	11.3	30	
4,4'-DDE	0.070	0.0037	mg/Kg wet	0.09141		76.7	40-140	12.7	30	
4,4'-DDE [2C]	0.072	0.0037	mg/Kg wet	0.09141		79.2	40-140	12.4	30	
4,4'-DDT	0.063	0.0037	mg/Kg wet	0.09141		69.3	40-140	17.6	30	
4,4'-DDT [2C]	0.063	0.0037	mg/Kg wet	0.09141		68.8	40-140	16.4	30	
Dieldrin	0.068	0.0037	mg/Kg wet	0.09141		74.0	40-140	11.5	30	
Dieldrin [2C]	0.071	0.0037	mg/Kg wet	0.09141		77.2	40-140	12.6	30	
Endosulfan I	0.065	0.0046	mg/Kg wet	0.09141		70.6	40-140	11.9	30	
Endosulfan I [2C]	0.069	0.0046	mg/Kg wet	0.09141		75.0	40-140	12.6	30	
Endosulfan II	0.065	0.0073	mg/Kg wet	0.09141		71.3	40-140	11.2	30	
Endosulfan II [2C]	0.071	0.0073	mg/Kg wet	0.09141		77.1	40-140	11.7	30	
Endosulfan Sulfate	0.058	0.0073	mg/Kg wet	0.09141		63.0	40-140	12.5	30	
Endosulfan Sulfate [2C]	0.064	0.0073	mg/Kg wet	0.09141		70.2	40-140	12.8	30	
Endrin	0.066	0.0073	mg/Kg wet	0.09141		72.7	40-140	15.8	30	
Endrin [2C]	0.066	0.0073	mg/Kg wet	0.09141		71.9	40-140	14.9	30	
Endrin Aldehyde	0.049	0.0073	mg/Kg wet	0.09141		53.8	40-140	11.8	30	
Endrin Aldehyde [2C]	0.055	0.0073	mg/Kg wet	0.09141		60.4	40-140	10.8	30	
Endrin Ketone	0.067	0.0073	mg/Kg wet	0.09141		73.5	40-140	11.0	30	
Endrin Ketone [2C]	0.064	0.0073	mg/Kg wet	0.09141		70.5	40-140	11.4	30	
Heptachlor	0.064	0.0046	mg/Kg wet	0.09141		70.0	40-140	14.1	30	
Heptachlor [2C]	0.066	0.0046	mg/Kg wet	0.09141		72.5	40-140	14.0	30	
Heptachlor Epoxide	0.065	0.0046	mg/Kg wet	0.09141		71.1	40-140	12.0	30	
Heptachlor Epoxide [2C]	0.067	0.0046	mg/Kg wet	0.09141		73.5	40-140	12.4	30	
Methoxychlor	0.059	0.046	mg/Kg wet	0.09141		64.0	40-140	21.4	30	
Methoxychlor [2C]	0.065	0.046	mg/Kg wet	0.09141		70.6	40-140	17.2	30	
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.1828		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.150*		mg/Kg wet	0.1828		82.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.120*		mg/Kg wet	0.1828		65.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.121*		mg/Kg wet	0.1828		66.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
Matrix Spike (B391053-MS1)	**Source: 24J3305-02**			Prepared: 10/31/24 Analyzed: 11/08/24						
Aldrin	0.079	0.0052	mg/Kg dry	0.1041	ND	75.9	30-150			
Aldrin [2C]	0.083	0.0052	mg/Kg dry	0.1041	ND	79.8	30-150			
alpha-BHC	0.080	0.0052	mg/Kg dry	0.1041	ND	76.4	30-150			
alpha-BHC [2C]	0.080	0.0052	mg/Kg dry	0.1041	ND	77.4	30-150			
beta-BHC	0.077	0.0052	mg/Kg dry	0.1041	ND	74.3	30-150			
beta-BHC [2C]	0.080	0.0052	mg/Kg dry	0.1041	ND	77.3	30-150			
delta-BHC	0.053	0.0052	mg/Kg dry	0.1041	ND	50.7	30-150			
delta-BHC [2C]	0.054	0.0052	mg/Kg dry	0.1041	ND	51.7	30-150			
gamma-BHC (Lindane)	0.073	0.0021	mg/Kg dry	0.1041	ND	70.0	30-150			
gamma-BHC (Lindane) [2C]	0.077	0.0021	mg/Kg dry	0.1041	ND	73.8	30-150			
4,4'-DDD	0.089	0.0042	mg/Kg dry	0.1041	ND	85.7	30-150			
4,4'-DDD [2C]	0.092	0.0042	mg/Kg dry	0.1041	ND	88.2	30-150			
4,4'-DDE	0.091	0.0042	mg/Kg dry	0.1041	ND	87.2	30-150			
4,4'-DDE [2C]	0.093	0.0042	mg/Kg dry	0.1041	ND	89.4	30-150			
4,4'-DDT	0.068	0.0042	mg/Kg dry	0.1041	ND	65.6	30-150			
4,4'-DDT [2C]	0.067	0.0042	mg/Kg dry	0.1041	ND	64.5	30-150			
Dieldrin	0.085	0.0042	mg/Kg dry	0.1041	ND	81.7	30-150			
Dieldrin [2C]	0.089	0.0042	mg/Kg dry	0.1041	ND	85.3	30-150			
Endosulfan I	0.081	0.0052	mg/Kg dry	0.1041	ND	78.2	30-150			
Endosulfan I [2C]	0.087	0.0052	mg/Kg dry	0.1041	ND	83.6	30-150			
Endosulfan II	0.083	0.0083	mg/Kg dry	0.1041	ND	79.4	30-150			
Endosulfan II [2C]	0.089	0.0083	mg/Kg dry	0.1041	ND	85.3	30-150			
Endosulfan Sulfate	0.051	0.0083	mg/Kg dry	0.1041	ND	48.6	30-150			
Endosulfan Sulfate [2C]	0.056	0.0083	mg/Kg dry	0.1041	ND	54.0	30-150			
Endrin	0.076	0.0083	mg/Kg dry	0.1041	ND	73.0	30-150			V-05
Endrin [2C]	0.078	0.0083	mg/Kg dry	0.1041	ND	74.8	30-150			
Endrin Aldehyde	0.057	0.0083	mg/Kg dry	0.1041	ND	54.9	30-150			
Endrin Aldehyde [2C]	0.069	0.0083	mg/Kg dry	0.1041	ND	66.5	30-150			
Endrin Ketone	0.083	0.0083	mg/Kg dry	0.1041	ND	79.5	30-150			
Endrin Ketone [2C]	0.078	0.0083	mg/Kg dry	0.1041	ND	75.2	30-150			
Heptachlor	0.078	0.0052	mg/Kg dry	0.1041	ND	74.8	30-150			
Heptachlor [2C]	0.081	0.0052	mg/Kg dry	0.1041	ND	77.5	30-150			
Heptachlor Epoxide	0.080	0.0052	mg/Kg dry	0.1041	ND	76.9	30-150			
Heptachlor Epoxide [2C]	0.085	0.0052	mg/Kg dry	0.1041	ND	81.3	30-150			
Methoxychlor	0.062	0.052	mg/Kg dry	0.1041	ND	59.6	30-150			
Methoxychlor [2C]	0.070	0.052	mg/Kg dry	0.1041	ND	67.0	30-150			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg dry	0.2081		93.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg dry	0.2081		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.145*		mg/Kg dry	0.2081		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.152*		mg/Kg dry	0.2081		72.8	30-150			
Matrix Spike Dup (B391053-MSD1)	**Source: 24J3305-02**			Prepared: 10/31/24 Analyzed: 11/08/24						
Aldrin	0.072	0.0052	mg/Kg dry	0.1042	ND	69.2	30-150	9.07	30	
Aldrin [2C]	0.076	0.0052	mg/Kg dry	0.1042	ND	73.0	30-150	8.68	30	
alpha-BHC	0.075	0.0052	mg/Kg dry	0.1042	ND	71.7	30-150	6.18	30	
alpha-BHC [2C]	0.076	0.0052	mg/Kg dry	0.1042	ND	72.9	30-150	5.73	30	
beta-BHC	0.070	0.0052	mg/Kg dry	0.1042	ND	67.5	30-150	9.45	30	
beta-BHC [2C]	0.073	0.0052	mg/Kg dry	0.1042	ND	69.6	30-150	10.3	30	
delta-BHC	0.062	0.0052	mg/Kg dry	0.1042	ND	59.7	30-150	16.6	30	
delta-BHC [2C]	0.064	0.0052	mg/Kg dry	0.1042	ND	61.1	30-150	16.9	30	
gamma-BHC (Lindane)	0.069	0.0021	mg/Kg dry	0.1042	ND	66.4	30-150	5.14	30	
gamma-BHC (Lindane) [2C]	0.073	0.0021	mg/Kg dry	0.1042	ND	70.1	30-150	5.00	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
Matrix Spike Dup (B391053-MSD1)	**Source: 24J3305-02**			Prepared: 10/31/24 Analyzed: 11/08/24						
4,4'-DDD	0.082	0.0042	mg/Kg dry	0.1042	ND	78.9	30-150	8.08	30	
4,4'-DDD [2C]	0.084	0.0042	mg/Kg dry	0.1042	ND	80.8	30-150	8.52	30	
4,4'-DDE	0.079	0.0042	mg/Kg dry	0.1042	ND	76.0	30-150	13.6	30	
4,4'-DDE [2C]	0.081	0.0042	mg/Kg dry	0.1042	ND	78.0	30-150	13.4	30	
4,4'-DDT	0.061	0.0042	mg/Kg dry	0.1042	ND	58.3	30-150	11.6	30	
4,4'-DDT [2C]	0.060	0.0042	mg/Kg dry	0.1042	ND	57.8	30-150	10.8	30	
Dieldrin	0.076	0.0042	mg/Kg dry	0.1042	ND	72.5	30-150	11.8	30	
Dieldrin [2C]	0.079	0.0042	mg/Kg dry	0.1042	ND	75.5	30-150	12.0	30	
Endosulfan I	0.072	0.0052	mg/Kg dry	0.1042	ND	69.5	30-150	11.5	30	
Endosulfan I [2C]	0.077	0.0052	mg/Kg dry	0.1042	ND	74.3	30-150	11.6	30	
Endosulfan II	0.073	0.0083	mg/Kg dry	0.1042	ND	70.0	30-150	12.4	30	
Endosulfan II [2C]	0.079	0.0083	mg/Kg dry	0.1042	ND	75.5	30-150	12.0	30	
Endosulfan Sulfate	0.058	0.0083	mg/Kg dry	0.1042	ND	55.9	30-150	14.2	30	
Endosulfan Sulfate [2C]	0.064	0.0083	mg/Kg dry	0.1042	ND	61.6	30-150	13.2	30	
Endrin	0.067	0.0083	mg/Kg dry	0.1042	ND	64.1	30-150	12.8	30	V-05
Endrin [2C]	0.068	0.0083	mg/Kg dry	0.1042	ND	65.1	30-150	13.7	30	
Endrin Aldehyde	0.055	0.0083	mg/Kg dry	0.1042	ND	52.8	30-150	3.72	30	
Endrin Aldehyde [2C]	0.066	0.0083	mg/Kg dry	0.1042	ND	63.4	30-150	4.66	30	
Endrin Ketone	0.073	0.0083	mg/Kg dry	0.1042	ND	70.0	30-150	12.5	30	
Endrin Ketone [2C]	0.069	0.0083	mg/Kg dry	0.1042	ND	66.0	30-150	12.9	30	
Heptachlor	0.071	0.0052	mg/Kg dry	0.1042	ND	67.9	30-150	9.43	30	
Heptachlor [2C]	0.074	0.0052	mg/Kg dry	0.1042	ND	70.6	30-150	9.10	30	
Heptachlor Epoxide	0.071	0.0052	mg/Kg dry	0.1042	ND	67.8	30-150	12.4	30	
Heptachlor Epoxide [2C]	0.076	0.0052	mg/Kg dry	0.1042	ND	72.9	30-150	10.7	30	
Methoxychlor	0.053	0.052	mg/Kg dry	0.1042	ND	50.6	30-150	16.1	30	
Methoxychlor [2C]	0.059	0.052	mg/Kg dry	0.1042	ND	56.9	30-150	16.1	30	
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg dry	0.2085		82.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg dry	0.2085		82.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.141*		mg/Kg dry	0.2085		67.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg dry	0.2085		69.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390367 - SW-846 3546										
Blank (B390367-BLK1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.1949		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.1949		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.1949		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.1949		87.2	30-150			
LCS (B390367-BS1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Aroclor-1016	0.16	0.019	mg/Kg wet	0.1946		80.3	40-140			
Aroclor-1016 [2C]	0.15	0.019	mg/Kg wet	0.1946		75.5	40-140			
Aroclor-1260	0.18	0.019	mg/Kg wet	0.1946		90.3	40-140			
Aroclor-1260 [2C]	0.17	0.019	mg/Kg wet	0.1946		85.1	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.1946		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.1946		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.1946		84.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.1946		85.4	30-150			
LCS Dup (B390367-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Aroclor-1016	0.16	0.019	mg/Kg wet	0.1947		81.4	40-140	1.33	30	
Aroclor-1016 [2C]	0.15	0.019	mg/Kg wet	0.1947		76.8	40-140	1.76	30	
Aroclor-1260	0.17	0.019	mg/Kg wet	0.1947		89.4	40-140	1.01	30	
Aroclor-1260 [2C]	0.16	0.019	mg/Kg wet	0.1947		84.5	40-140	0.640	30	
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.1947		87.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.1947		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.1947		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.1947		84.5	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391511 - SW-846 3050B										
Blank (B391511-BLK1)				Prepared & Analyzed: 11/06/24						
Aluminum	ND	17	mg/Kg wet							
Antimony	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Calcium	ND	17	mg/Kg wet							
Chromium	ND	0.67	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Iron	ND	17	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Magnesium	ND	17	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.67	mg/Kg wet							
Potassium	ND	170	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Sodium	ND	170	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
Blank (B391511-BLK2)				Prepared: 11/06/24 Analyzed: 11/07/24						
Arsenic	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
LCS (B391511-BS1)				Prepared & Analyzed: 11/06/24						
Aluminum	4380	48	mg/Kg wet	5940		73.7	46.1-153.9			
Antimony	27.9	4.8	mg/Kg wet	121.0		23.1	2.1-200.8			
Barium	281	4.8	mg/Kg wet	295.0		95.2	81.7-118.3			
Beryllium	156	0.48	mg/Kg wet	160.0		97.5	82.5-117.5			
Cadmium	73.7	0.97	mg/Kg wet	84.30		87.5	82.2-117.8			
Calcium	4930	48	mg/Kg wet	5270		93.5	82.5-117.5			
Chromium	210	1.9	mg/Kg wet	213.0		98.5	81.2-119.2			
Cobalt	133	4.8	mg/Kg wet	137.0		97.1	83.2-117.5			
Copper	201	3.9	mg/Kg wet	195.0		103	83.1-116.9			
Iron	5050	48	mg/Kg wet	6650		75.9	58.6-141.5			
Lead	179	1.5	mg/Kg wet	194.0		92.4	82-118.6			
Magnesium	1560	48	mg/Kg wet	1860		83.9	75.3-124.2			
Manganese	264	0.97	mg/Kg wet	264.0		99.9	80.7-118.9			
Nickel	295	1.9	mg/Kg wet	298.0		98.9	82.2-117.8			
Potassium	1870	480	mg/Kg wet	2010		93.3	70.6-129.4			
Selenium	244	9.7	mg/Kg wet	272.0		89.9	80.1-119.5			
Sodium	389	480	mg/Kg wet	406.0		95.8	74.9-124.9			J
Vanadium	169	1.9	mg/Kg wet	169.0		99.8	78.1-122.5			
Zinc	222	1.9	mg/Kg wet	236.0		94.0	80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391511 - SW-846 3050B										
LCS (B391511-BS2)				Prepared: 11/06/24 Analyzed: 11/07/24						
Arsenic	212	9.7	mg/Kg wet	242.0		87.8	81.8-118.6			
Silver	65.4	0.97	mg/Kg wet	76.70		85.2	79.5-120.5			
Thallium	98.7	4.8	mg/Kg wet	108.0		91.4	80-119.4			
LCS Dup (B391511-BSD1)				Prepared & Analyzed: 11/06/24						
Aluminum	4420	48	mg/Kg wet	5940		74.3	46.1-153.9	0.889	30	
Antimony	29.4	4.8	mg/Kg wet	121.0		24.3	2.1-200.8	5.23	30	
Barium	286	4.8	mg/Kg wet	295.0		96.9	81.7-118.3	1.75	20	
Beryllium	156	0.48	mg/Kg wet	160.0		97.4	82.5-117.5	0.162	30	
Cadmium	73.6	0.95	mg/Kg wet	84.30		87.3	82.2-117.8	0.154	20	
Calcium	4900	48	mg/Kg wet	5270		92.9	82.5-117.5	0.574	30	
Chromium	206	1.9	mg/Kg wet	213.0		96.8	81.2-119.2	1.74	30	
Cobalt	131	4.8	mg/Kg wet	137.0		95.9	83.2-117.5	1.21	20	
Copper	198	3.8	mg/Kg wet	195.0		101	83.1-116.9	1.63	30	
Iron	5000	48	mg/Kg wet	6650		75.2	58.6-141.5	1.02	30	
Lead	181	1.4	mg/Kg wet	194.0		93.1	82-118.6	0.690	30	
Magnesium	1560	48	mg/Kg wet	1860		84.1	75.3-124.2	0.295	30	
Manganese	268	0.95	mg/Kg wet	264.0		102	80.7-118.9	1.67	30	
Nickel	288	1.9	mg/Kg wet	298.0		96.6	82.2-117.8	2.43	30	
Potassium	1860	480	mg/Kg wet	2010		92.6	70.6-129.4	0.745	30	
Selenium	243	9.5	mg/Kg wet	272.0		89.4	80.1-119.5	0.498	30	
Sodium	381	480	mg/Kg wet	406.0		93.9	74.9-124.9	1.96	30	J
Vanadium	167	1.9	mg/Kg wet	169.0		98.5	78.1-122.5	1.30	30	
Zinc	218	1.9	mg/Kg wet	236.0		92.5	80.1-120.3	1.64	30	
LCS Dup (B391511-BSD2)				Prepared: 11/06/24 Analyzed: 11/07/24						
Arsenic	215	9.5	mg/Kg wet	242.0		88.8	81.8-118.6	1.12	30	
Silver	64.5	0.95	mg/Kg wet	76.70		84.0	79.5-120.5	1.39	30	
Thallium	100	4.8	mg/Kg wet	108.0		92.7	80-119.4	1.43	30	
Dilution Check (B391511-SRL1)		**Source: 24J2754-02**		Prepared & Analyzed: 11/06/24						
Aluminum	13800	87	mg/Kg dry		13000			5.66	20	
Antimony	ND	8.7	mg/Kg dry		ND				20	
Beryllium	0.824	0.87	mg/Kg dry		0.718			13.8	20	J
Calcium	2430	87	mg/Kg dry		2220			9.08	20	
Cobalt	14.3	8.7	mg/Kg dry		12.6			12.6	20	
Copper	68.0	6.9	mg/Kg dry		65.6			3.53	20	
Magnesium	6240	87	mg/Kg dry		5680			9.31	20	
Manganese	783	1.7	mg/Kg dry		705			10.5	20	
Potassium	1440	870	mg/Kg dry		1340			6.90	20	
Sodium	ND	870	mg/Kg dry		ND				20	
Vanadium	26.4	3.5	mg/Kg dry		25.7			2.80	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392251 - SW-846 7471										
Blank (B392251-BLK1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Mercury	ND	0.025	mg/Kg wet							
LCS (B392251-BS1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Mercury	24.5	1.8	mg/Kg wet	22.80		108	70.6-129.4			
LCS Dup (B392251-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Mercury	22.3	1.9	mg/Kg wet	22.80		97.9	70.6-129.4	9.54	20	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392420 - SW-846 9010C										
Blank (B392420-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B392420-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	130	4.9	mg/Kg wet	85.17		151	30.6-170			
LCS Dup (B392420-BSD1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	120	5.0	mg/Kg wet	85.42		140	30.6-170	7.33	30	
Matrix Spike (B392420-MS1)	**Source: 24J3305-01**			Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	21	0.58	mg/Kg dry	17.45	ND	122	75-125			
Matrix Spike Dup (B392420-MSD1)	**Source: 24J3305-01**			Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	21	0.58	mg/Kg dry	17.48	ND	120	75-125	1.96	30	

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BREAKDOWN REPORT

Lab Sample ID: **S113851-PEM1** **Analyzed:** **11/08/2024**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.50
Endrin [1]	2.90

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.05
Endrin [2]	3.05

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B390367-BS1

Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD3

Instrument ID (2): ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.15	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B390367-BSD1 Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.15	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391053-BS1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.401	5.372	5.432	0.082	
	2	5.353	5.324	5.384	0.084	2.4
4,4'-DDE	1	4.914	4.885	4.945	0.080	
	2	4.888	4.858	4.918	0.082	2.5
4,4'-DDT	1	5.631	5.601	5.661	0.076	
	2	5.608	5.578	5.638	0.074	2.7
Aldrin	1	4.150	4.120	4.180	0.072	
	2	4.022	3.992	4.052	0.076	5.4
alpha-BHC	1	3.267	3.237	3.297	0.075	
	2	3.154	3.123	3.183	0.076	1.3
alpha-Chlordane	1	4.851	4.821	4.881	0.073	
	2	4.743	4.713	4.773	0.078	6.6
beta-BHC	1	3.591	3.561	3.621	0.069	
	2	3.497	3.466	3.526	0.072	4.3
delta-BHC	1	3.733	3.703	3.763	0.065	
	2	3.723	3.693	3.753	0.066	1.5
Dieldrin	1	5.157	5.127	5.187	0.076	
	2	5.004	4.974	5.034	0.080	5.1
Endosulfan I	1	4.962	4.931	4.991	0.073	
	2	4.784	4.754	4.814	0.078	6.6
Endosulfan II	1	5.529	5.499	5.559	0.073	
	2	5.419	5.389	5.449	0.079	7.9
Endosulfan Sulfate	1	6.198	6.169	6.229	0.065	
	2	5.919	5.890	5.950	0.073	11.6
Endrin	1	5.347	5.317	5.377	0.078	
	2	5.246	5.216	5.276	0.076	2.6
Endrin Aldehyde	1	5.873	5.843	5.903	0.055	
	2	5.695	5.666	5.726	0.062	12.0
Endrin Ketone	1	6.388	6.358	6.418	0.075	
	2	6.293	6.263	6.323	0.072	4.1
gamma-BHC (Lindane)	1	3.523	3.492	3.552	0.070	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391053-BS1

Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A

Instrument ID (2): ECD 8B

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.429	3.399	3.459	0.073	4.2
gamma-Chlordane	1	4.742	4.712	4.772	0.072	
	2	4.626	4.596	4.656	0.077	6.7
Heptachlor	1	3.907	3.876	3.936	0.074	
	2	3.771	3.741	3.801	0.076	2.7
Heptachlor Epoxide	1	4.641	4.612	4.672	0.073	
	2	4.474	4.445	4.505	0.076	4.0
Methoxychlor	1	6.019	5.990	6.050	0.073	
	2	6.146	6.116	6.176	0.077	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391053-BSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.401	5.372	5.432	0.074	
	2	5.353	5.324	5.384	0.075	1.3
4,4'-DDE	1	4.915	4.885	4.945	0.070	
	2	4.887	4.858	4.918	0.072	2.8
4,4'-DDT	1	5.632	5.601	5.661	0.063	
	2	5.608	5.578	5.638	0.063	0.0
Aldrin	1	4.150	4.120	4.180	0.063	
	2	4.022	3.992	4.052	0.066	4.7
alpha-BHC	1	3.267	3.237	3.297	0.065	
	2	3.153	3.123	3.183	0.066	1.5
alpha-Chlordane	1	4.851	4.821	4.881	0.065	
	2	4.743	4.713	4.773	0.069	6.0
beta-BHC	1	3.591	3.561	3.621	0.060	
	2	3.496	3.466	3.526	0.064	4.8
delta-BHC	1	3.734	3.703	3.763	0.058	
	2	3.723	3.693	3.753	0.059	1.7
Dieldrin	1	5.157	5.127	5.187	0.068	
	2	5.004	4.974	5.034	0.071	4.3
Endosulfan I	1	4.961	4.931	4.991	0.065	
	2	4.784	4.754	4.814	0.069	6.0
Endosulfan II	1	5.529	5.499	5.559	0.065	
	2	5.419	5.389	5.449	0.071	8.8
Endosulfan Sulfate	1	6.198	6.169	6.229	0.058	
	2	5.919	5.890	5.950	0.064	9.8
Endrin	1	5.347	5.317	5.377	0.066	
	2	5.246	5.216	5.276	0.066	0.0
Endrin Aldehyde	1	5.873	5.843	5.903	0.049	
	2	5.694	5.666	5.726	0.055	11.5
Endrin Ketone	1	6.389	6.358	6.418	0.067	
	2	6.293	6.263	6.323	0.064	4.6
gamma-BHC (Lindane)	1	3.522	3.492	3.552	0.061	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391053-BSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.428	3.399	3.459	0.064	4.8
gamma-Chlordane	1	4.742	4.712	4.772	0.064	
	2	4.626	4.596	4.656	0.068	6.1
Heptachlor	1	3.907	3.876	3.936	0.064	
	2	3.771	3.741	3.801	0.066	3.1
Heptachlor Epoxide	1	4.641	4.612	4.672	0.065	
	2	4.475	4.445	4.505	0.067	3.0
Methoxychlor	1	6.019	5.990	6.050	0.059	
	2	6.146	6.116	6.176	0.065	9.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B391053-MS1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.401	5.371	5.431	0.089	
	2	5.353	5.323	5.383	0.092	3.3
4,4'-DDE	1	4.915	4.884	4.944	0.091	
	2	4.889	4.858	4.918	0.093	2.2
4,4'-DDT	1	5.631	5.601	5.661	0.068	
	2	5.609	5.578	5.638	0.067	1.5
Aldrin	1	4.150	4.120	4.180	0.079	
	2	4.023	3.992	4.052	0.083	4.9
alpha-BHC	1	3.267	3.236	3.296	0.080	
	2	3.153	3.123	3.183	0.080	0.0
beta-BHC	1	3.591	3.560	3.620	0.077	
	2	3.497	3.466	3.526	0.080	3.8
delta-BHC	1	3.733	3.703	3.763	0.053	
	2	3.723	3.693	3.753	0.054	1.9
Dieldrin	1	5.157	5.127	5.187	0.085	
	2	5.004	4.974	5.034	0.089	4.6
Endosulfan I	1	4.962	4.931	4.991	0.081	
	2	4.785	4.754	4.814	0.087	7.1
Endosulfan II	1	5.529	5.499	5.559	0.083	
	2	5.419	5.389	5.449	0.089	7.0
Endosulfan Sulfate	1	6.199	6.168	6.228	0.051	
	2	5.920	5.890	5.950	0.056	9.4
Endrin	1	5.347	5.317	5.377	0.076	
	2	5.247	5.217	5.277	0.078	2.6
Endrin Aldehyde	1	5.873	5.843	5.903	0.057	
	2	5.695	5.665	5.725	0.069	19.0
Endrin Ketone	1	6.388	6.358	6.418	0.083	
	2	6.293	6.263	6.323	0.078	6.2
gamma-BHC (Lindane)	1	3.523	3.492	3.552	0.073	
	2	3.429	3.398	3.458	0.077	5.3
Heptachlor	1	3.907	3.876	3.936	0.078	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B391053-MS1

Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A

Instrument ID (2): ECD 8B

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.771	3.741	3.801	0.081	3.8
Heptachlor Epoxide	1	4.642	4.611	4.671	0.080	
	2	4.476	4.445	4.505	0.085	6.1
Methoxychlor	1	6.019	5.989	6.049	0.062	
	2	6.147	6.116	6.176	0.070	12.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B391053-MSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.401	5.371	5.431	0.082	
	2	5.353	5.323	5.383	0.084	2.4
4,4'-DDE	1	4.914	4.884	4.944	0.079	
	2	4.888	4.858	4.918	0.081	2.5
4,4'-DDT	1	5.631	5.601	5.661	0.061	
	2	5.608	5.578	5.638	0.060	1.7
Aldrin	1	4.150	4.120	4.180	0.072	
	2	4.021	3.992	4.052	0.076	5.4
alpha-BHC	1	3.267	3.236	3.296	0.075	
	2	3.153	3.123	3.183	0.076	1.3
beta-BHC	1	3.591	3.560	3.620	0.070	
	2	3.497	3.466	3.526	0.073	4.2
delta-BHC	1	3.733	3.703	3.763	0.062	
	2	3.723	3.693	3.753	0.064	3.2
Dieldrin	1	5.157	5.127	5.187	0.076	
	2	5.004	4.974	5.034	0.079	3.9
Endosulfan I	1	4.961	4.931	4.991	0.072	
	2	4.784	4.754	4.814	0.077	5.3
Endosulfan II	1	5.529	5.499	5.559	0.073	
	2	5.418	5.389	5.449	0.079	7.9
Endosulfan Sulfate	1	6.198	6.168	6.228	0.058	
	2	5.919	5.890	5.950	0.064	9.8
Endrin	1	5.347	5.317	5.377	0.067	
	2	5.246	5.217	5.277	0.068	1.5
Endrin Aldehyde	1	5.873	5.843	5.903	0.055	
	2	5.694	5.665	5.725	0.066	18.2
Endrin Ketone	1	6.388	6.358	6.418	0.073	
	2	6.293	6.263	6.323	0.069	5.6
gamma-BHC (Lindane)	1	3.522	3.492	3.552	0.069	
	2	3.428	3.398	3.458	0.073	5.6
Heptachlor	1	3.907	3.876	3.936	0.071	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B391053-MSD1

Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A

Instrument ID (2): ECD 8B

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.771	3.741	3.801	0.074	4.1
Heptachlor Epoxide	1	4.641	4.611	4.671	0.071	
	2	4.475	4.445	4.505	0.076	6.8
Methoxychlor	1	6.019	5.989	6.049	0.053	
	2	6.146	6.116	6.176	0.059	10.7

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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.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
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-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8081B in Soil	
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	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
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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
Diisopropyl Ether (DIPE)	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

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Analyte	Certifications
SW-846 8260D in Water	
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
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 Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

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
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

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CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address:	201 Fuller Rd, Suite 201, Albany, NY 12203
Consultant Phone:	518-250-7334
Callout Project Name:	Former Commander Oil Terminal - Off-site
Project Location:	Nassau
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbaquingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYSDEC
Sampled By:	Maeve Tucker

Requested Turnaround Time
DEC Standard 30-calendar day ✓
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ✓ EXCEL ✓
Other:
CLP Like (Level 4) Data Pkg Required: ✓
Email To: stefan.Bugnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP-RCRA-8 Metals	PFAS 1633 | PFAS 537 ID
1	MW-1(5-6)102124	10/21	1300	✓		S	U	X	X	X			
2	MW-1(20-22.5)102124	10/21	1430	✓		S	U	X	X		X	X	

[2] # of Containers: 6 2 1 1
[2] Preservation Code: M,B I I I I
[3] Container Code: V A A A A

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/21/24 1630	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 10/21/24 17:59	
Relinquished by: (signature)	Date/Time: 10/21/24 18:20	
Received by: (signature)	Date/Time: 10/21/24 2030	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
✓ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
✓ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
✓ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Anthony Green 10/21/24 2345 / RCD: 10/21/24 2345 / Rel: 10/22/24 0240

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Table of Contents

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

Log In Back-Sheet

Client Arcadis (DEC)

Project Former Commodore Oil Terminal - Offsite

MCP/RCP Required no

Deliverable Package Requirement NY Cat B

Location NY

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 10/22/24 0830

Back-Sheet By / Date / Time MKM 10/22/24 2237

Temperature Method Gun # 6

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

Temp < 6° C Actual Temperature 0.2 0.4, 12.4 0

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

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

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

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

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

Qualtrax ID: 120836

ANALYTICAL REPORT

Lab Number:	L2461869
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24J3305
Project Number:	24J3305
Report Date:	11/06/24

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

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

Project Name: 24J3305
Project Number: 24J3305

Lab Number: L2461869
Report Date: 11/06/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2461869-01	MW-1 (20-22.5) 102124	SOIL	Not Specified	10/21/24 14:30	10/23/24

Project Name:	24J3305	**Lab Number:**	L2461869
Project Number:	24J3305	**Report Date:**	11/06/24

Case Narrative

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

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

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

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

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

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

Project Name: 24J3305 **Lab Number:** L2461869
Project Number: 24J3305 **Report Date:** 11/06/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/06/24

ORGANICS

PESTICIDES

Project Name: 24J3305 **Lab Number:** L2461869

Project Number: 24J3305 **Report Date:** 11/06/24

SAMPLE RESULTS

Lab ID: L2461869-01
Client ID: MW-1 (20-22.5) 102124
Sample Location: Not Specified

Date Collected: 10/21/24 14:30
Date Received: 10/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/28/24 12:07
Analyst: EJL
Percent Solids: 88%
Methylation Date: 10/28/24 06:50

Extraction Method: EPA 8151A
Extraction Date: 10/25/24 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3710	1170	1	A
MCPA	ND		ug/kg	3710	1050	1	A
Dalapon	ND		ug/kg	37.1	12.1	1	A
Dicamba	ND		ug/kg	37.1	6.23	1	A
Dichloroprop	ND		ug/kg	37.1	10.6	1	A
2,4-D	ND		ug/kg	185	11.7	1	A
2,4-DB	ND		ug/kg	185	9.53	1	A
2,4,5-T	ND		ug/kg	185	5.75	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	66		30-150	A
DCAA	74		30-150	B

Project Name: 24J3305 **Lab Number:** L2461869

Project Number: 24J3305 **Report Date:** 11/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/27/24 00:11
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 10/25/24 14:00

Methylation Date: 10/26/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1989150-1						
MCPP	ND		ug/kg	3280	1030	A
MCPA	ND		ug/kg	3280	929.	A
Dalapon	ND		ug/kg	32.8	10.7	A
Dicamba	ND		ug/kg	32.8	5.52	A
Dichloroprop	ND		ug/kg	32.8	9.42	A
2,4-D	ND		ug/kg	164	10.3	A
2,4-DB	ND		ug/kg	164	8.44	A
2,4,5-T	ND		ug/kg	164	5.09	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.37	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	78		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24J3305
Project Number: 24J3305

Lab Number: L2461869
Report Date: 11/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1989150-2 WG1989150-3									
MCPP	82		86		30-150	5		30	A
MCPA	85		89		30-150	5		30	A
Dalapon	64		59		30-150	8		30	A
Dicamba	82		79		30-150	4		30	A
Dichloroprop	87		89		30-150	2		30	A
2,4-D	78		77		30-150	1		30	A
2,4-DB	81		80		30-150	1		30	A
2,4,5-T	84		86		30-150	2		30	A
2,4,5-TP (Silvex)	85		83		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	74		71		30-150	A
DCAA	89		82		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24J3305
Project Number: 24J3305

Lab Number: L2461869
Report Date: 11/06/24

SAMPLE RESULTS

Lab ID: L2461869-01
Client ID: MW-1 (20-22.5) 102124
Sample Location: Not Specified

Date Collected: 10/21/24 14:30
Date Received: 10/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	11/03/24 10:52	121,2540G	MAW

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24J3305
Project Number: 24J3305

Lab Number: L2461869
Report Date: 11/06/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1992451-1 QC Sample: L2461616-01 Client ID: DUP Sample						
Solids, Total	71.1	72.2	%	2		20

Project Name: 24J3305
Project Number: 24J3305

Lab Number: L2461869
Report Date: 11/06/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2461869-01A	Glass 120ml/4oz unpreserved	C	NA		4.9	Y	Absent		TS(7),HERB-8151(14)

*Values in parentheses indicate holding time in days

Project Name:	24J3305	**Lab Number:**	L2461869
Project Number:	24J3305	**Report Date:**	11/06/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J3305	**Lab Number:**	L2461869
Project Number:	24J3305	**Report Date:**	11/06/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J3305	**Lab Number:**	L2461869
Project Number:	24J3305	**Report Date:**	11/06/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24J3305 **Lab Number:** L2461869

Project Number: 24J3305 **Report Date:** 11/06/24

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L2461869 CONTEST 06NOV24

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J3305

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

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

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J3305-02	**MW-1(20-22.5)102124**	**Soil**	**Sampled:**	**10/21/24 14:30**	
S-8151 DER TCL		11/19/24 14:00		11/04/24 14:30	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (B)					

Released By	Date	Received By	Date
	10-23-24 1730		10-23-24 1630
Released By	Date	Received By	Date
	10-23-24 1815		10/23/24 1815

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

JL33305 RM

https://www.pacelabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address: 201 Fuller Rd, Suite 201, Albany, NY 12203	
Consultant Phone: 518-250-7334	
Callout Project Name: Former Commander Oil Terminal - Off-site	
Project Location: Nassau	
Callout Number: 151674	
Site/Spill Number: #C130244A	
Project Manager: Steeven Imbayungo	
Pace Analytical Quote Name/Number: C100993	
Invoice Recipient: NYSDEC	
Sampled By: Maeve Tucker	

Requested Turnaround Time
- DEC Standard 30-calendar day ☑
- Due Date:

Rush (Prior Approval Required)
- 1-Day ☐ 2-Day ☐ 3-Day ☐
- 4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
- Format: PDF ☑ EXCEL ☑
- Other:
- CLP Like (Level 4) Data Pkg Required: ☑
- Email To: Stefan.Bugnato@Arcadis.com
- Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticide	8151 Herbicide	TAL Total Metals	PFAS 1633	PFAS 537 ID
1	MW-1(5-6)102124	10/21	1300	✓		S	U	X	X	X						
2	MW-1(20-22.5)102124	10/21	1430	✓		S	U	X	X				X	X		

# of Containers	6	2	1	1												
Preservation Code	M,B	I	I	I	I											
Container Code	V	A	A	A	A											

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
- ☐ Field Filtered
- ☐ Lab to Filter

Orthophosphate Samples
- ☐ Field Filtered
- ☐ Lab to Filter

Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
- ☐ AWQ STDS ☐ NY TOGS
- ☐ NYC Sewer Discharge ☐ NY CP-51
- ☐ Part 360 GW (Landfill)
- ☐ NY Restricted Use
- ☐ NY Unrestricted Use
- ☑ NY Part 375
- Other:

Deliverables
- ☐ Enhanced Data Package
- ☑ NYSDEC EQuIS EDD
- ☐ EQuIS (Standard) EDD
- ☐ NY Regulatory EDD
- ☐ NY Regs Hits-Only EDD
- Other:

Project Entity
- ☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
- ☐ Federal ☐ 21 J ☐ School
- ☐ City ☐ Brownfield ☐ MBTA

Other
- ☐ Chromatogram
- ☐ AIHA-LAP,LLC

PCB ONLY
- ☐ Soxhlet
- ☐ Non Soxhlet

Anthony Croom 10/21/24 2355/ RCD: 10/21/24 2355/ Rel: 10/22/24

Raymond McCarthy

From: Imbaquingo, Steeven A (DEC) <Steeven.Imbaquingo@dec.ny.gov>
Sent: Wednesday, November 13, 2024 11:32 AM
To: Raymond McCarthy
Subject: RE: Voice Mail (28 seconds)

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning,

Thank you for reaching back.
The work orders that we are looking to add more analysis, if there's any leftover volume, are:

- 24J3715:
  - subsurface soil analysis of **cyanide** for DPT-1(5-10)102324 and DPT-2(5-10)02324.
  - Groundwater analysis of **VOCs** and **SVOCs** for DPT-1(5-10)GW102324
- 24J3305:
  - subsurface soil analysis of **cyanide** for MW-1(5-6)102124 and MW-1(20-22.5)102124
- 24J3350:
  - surface soil analysis of **cyanide** for MW-2(SS)102224

Please let me know about this request. Thank you.

Sincerely,
Steeven Imbaquingo
he/him/his
Project Manager, Remedial Bureau A, Section B
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7015
Phone: 518-402-9739
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Raymond McCarthy <Raymond.McCarthy@pacelabs.com>
Sent: Wednesday, November 13, 2024 11:18 AM
To: Imbaquingo, Steeven A (DEC) <Steeven.Imbaquingo@dec.ny.gov>
Subject: RE: Voice Mail (28 seconds)

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November 25, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Nassau, NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24J3350

Enclosed are results of analyses for samples as received by the laboratory on October 23, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 11/25/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J3350

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DPT-3 (10-15) 102224	24J3350-01	Soil		SM 2540G	
				SW-846 8260D	
				SW-846 8270E	
DPT-3 (9.5-11.5) GW102224	24J3350-02	Ground Water		SW-846 8260D	
				SW-846 8270E	
DPT-3 (20-22) GW102224	24J3350-03	Ground Water		SW-846 8260D	
				SW-846 8270E	
MW-2 (SS) 102224	24J3350-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
MW-2 (5-5.5) 102224	24J3350-05	Soil		SM 2540G	
				SW-846 8260D	
MW-2 (28.5-29) 102224	24J3350-06	Soil		SM 2540G	
				SW-846 8260D	
Trip Blank 102224	24J3350-07	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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

Draft Method 1633

Qualifications:

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C8-PFOSA
S113224-CCV2

D7-NMeFOSE
S113224-CCV2

N-methylperfluorooctanesulfonamidoethanol(NMeF
S113224-CCV2

Perfluorooctanesulfonamide (PFOSA)
S113224-CCV2

V-05

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

Analyte & Samples(s) Qualified:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
24J3350-04[MW-2 (SS) 102224], S113349-CCV1

3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTC
24J3350-04[MW-2 (SS) 102224], S113349-CCV1

SW-846 7471B

Qualifications:

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Mercury
B392251-MS1, B392251-MSD1

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

24J3350-04[MW-2 (SS) 102224], 24J3350-04RE1[MW-2 (SS) 102224]

SW-846 8260D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Chloromethane
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], 24J3350-05[MW-2 (5-5.5) 102224], 24J3350-06[MW-2 (28.5-29) 102224], B390287-BS1, B390287-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:

Carbon Disulfide
B390287-BSD1

Chloroethane
B390287-BSD1

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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:

Chloromethane
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], 24J3350-05[MW-2 (5-5.5) 102224], 24J3350-06[MW-2 (28.5-29) 102224], B390287-BLK1, B390287-BS1, B390287-BSD1, S112733-CCV1

Dichlorodifluoromethane (Freon 12)
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], 24J3350-05[MW-2 (5-5.5) 102224], 24J3350-06[MW-2 (28.5-29) 102224], B390287-BLK1, B390287-BS1, B390287-BSD1, S112733-CCV1

Ethanol
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], 24J3350-05[MW-2 (5-5.5) 102224], 24J3350-06[MW-2 (28.5-29) 102224], B390287-BLK1, B390287-BS2, B390287-BSD2, S112733-CCV2

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24J3350-04RE1[MW-2 (SS) 102224]

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:

3,3-Dichlorobenzidine
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], B390240-BLK1, B390240-BS1, B390240-BSD1

Caprolactam
24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], 24J3350-03[DPT-3 (20-22) GW102224], B390206-BLK1, B390206-BS1, B390206-BSD1, B390727-BLK1, B390727-BS1, B390727-BSD1

Pyridine
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], B390240-BLK1, B390240-BS1, B390240-BSD1

L-07A

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
B390901-BSD1

R-05

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
24J3350-04[MW-2 (SS) 102224], B390901-BLK1, B390901-BS1

2-Nitrophenol
B390206-BS1, B390206-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Hexachlorobutadiene
B390206-BS1, B390206-BSD1

Naphthalene
B390206-BS1, B390206-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
B390206-BS1, B390206-BSD1, S112825-CCV1

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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
24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], 24J3350-03[DPT-3 (20-22) GW102224], B390206-BLK1, B390206-BS1, B390206-BSD1, B390727-BLK1, B390727-BS1, B390727-BSD1, S112825-CCV1, S113189-CCV1, S113229-CCV1

4,6-Dinitro-2-methylphenol
24J3350-03[DPT-3 (20-22) GW102224], B390206-BLK1, B390206-BS1, B390206-BSD1, S112825-CCV1

Butylbenzylphthalate
24J3350-03[DPT-3 (20-22) GW102224], B390206-BLK1, B390206-BS1, B390206-BSD1, S112825-CCV1

Dibenz(a,h)anthracene
24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], B390727-BLK1, B390727-BS1, B390727-BSD1, S113189-CCV1, S113229-CCV1

Di-n-octylphthalate
24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], 24J3350-03[DPT-3 (20-22) GW102224], B390206-BLK1, B390206-BS1, B390206-BSD1, B390727-BLK1, B390727-BS1, B390727-BSD1, S112825-CCV1, S113189-CCV1, S113229-CCV1

Indeno(1,2,3-cd)pyrene
24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], B390727-BLK1, B390727-BS1, B390727-BSD1, S113189-CCV1, S113229-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:

2,3,4,6-Tetrachlorophenol
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], B390240-BLK1, B390240-BS1, B390240-BSD1, S112738-CCV2

2,4-Dinitrophenol
24J3350-01[DPT-3 (10-15) 102224], 24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], 24J3350-04[MW-2 (SS) 102224], B390240-BLK1, B390240-BS1, B390240-BSD1, S112738-CCV1, S113229-CCV1

Aniline
24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], S113229-CCV1

Benzaldehyde
24J3350-01[DPT-3 (10-15) 102224], 24J3350-04[MW-2 (SS) 102224], B390240-BLK1, B390240-BS1, B390240-BSD1, S112738-CCV2

V-06

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

Analyte & Samples(s) Qualified:

Caprolactam
B390727-BLK1, B390727-BS1, B390727-BSD1, S113189-CCV2

V-20

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24J3350-03[DPT-3 (20-22) GW102224], S112825-CCV1

2,4-Dinitrotoluene
24J3350-03[DPT-3 (20-22) GW102224], S112825-CCV1

2-Nitrophenol
24J3350-03[DPT-3 (20-22) GW102224], S112825-CCV1

4,6-Dinitro-2-methylphenol
S112738-CCV1

N-Nitrosodiphenylamine/Diphenylamine
S112738-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
24J3350-01[DPT-3 (10-15) 102224], 24J3350-02RE1[DPT-3 (9.5-11.5) GW102224], 24J3350-03[DPT-3 (20-22) GW102224], 24J3350-04[MW-2 (SS) 102224], B390206-BLK1, B390206-BS1, B390206-BSD1, B390240-BLK1, B390240-BS1, B390240-BSD1, B390727-BLK1, B390727-BS1, B390727-BSD1, S 110946-ICV1, S112738-CCV1, S112825-CCV1, S113189-CCV1, S113229-CCV1, S113304-ICV1, S113334-ICV1

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V-35

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

Analyte & Samples(s) Qualified:

2-Nitroaniline

24J3350-03[DPT-3 (20-22) GW102224], B390206-BLK1, B390206-BS1, B390206-BSD1, S112825-CCV1

SW-846 9014

Qualifications:

H-01

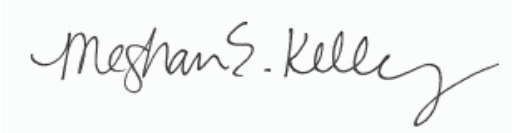
Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

Cyanide

24J3350-04[MW-2 (SS) 102224]

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.



Meghan E. Kelley
Reporting Specialist

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.090	0.047	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0039	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00090	0.00084	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Benzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromochloromethane	ND	0.0018	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromodichloromethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromoform	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Bromomethane	ND	0.0090	0.0016	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
2-Butanone (MEK)	ND	0.036	0.0076	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Butyl Alcohol (TBA)	ND	0.090	0.037	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
n-Butylbenzene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
sec-Butylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Butylbenzene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00090	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Carbon Disulfide	ND	0.018	0.0091	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Carbon Tetrachloride	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chlorobenzene	ND	0.0018	0.00044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chlorodibromomethane	ND	0.00090	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chloroform	ND	0.0036	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Chloromethane	ND	0.0090	0.0011	mg/Kg dry	1	V-05, L-04	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Cyclohexane	ND	0.0090	0.0037	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0036	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dibromoethane (EDB)	ND	0.00090	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00079	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1-Dichloroethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dichloroethane	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1-Dichloroethylene	ND	0.0036	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2-Dichloropropane	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
cis-1,3-Dichloropropene	ND	0.00090	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
trans-1,3-Dichloropropene	ND	0.00090	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Diisopropyl Ether (DIPE)	ND	0.00090	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Ethanol	ND	0.18	0.036	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Ethylbenzene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
2-Hexanone (MBK)	ND	0.018	0.0062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Methyl Cyclohexane	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Methylene Chloride	ND	0.018	0.00085	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Naphthalene	ND	0.0036	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
n-Propylbenzene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Styrene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.00090	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Tetrachloroethylene	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Toluene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Trichloroethylene	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0090	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0090	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Vinyl Chloride	ND	0.0090	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
m+p Xylene	ND	0.0036	0.0013	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
o-Xylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/24/24 9:00
Toluene-d8	100	70-130		10/24/24 9:00
4-Bromofluorobenzene	96.0	70-130		10/24/24 9:00

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.052	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Atrazine	ND	0.76	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzaldehyde	ND	0.39	0.062	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Biphenyl	ND	0.76	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Caprolactam	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Acenaphthene	ND	0.19	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Acenaphthylene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Acetophenone	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Aniline	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Anthracene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(a)anthracene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(a)pyrene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(b)fluoranthene	ND	0.19	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(g,h,i)perylene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Benzo(k)fluoranthene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Bis(2-chloroethoxy)methane	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Bis(2-chloroethyl)ether	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.39	0.24	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Bromophenylphenylether	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Butylbenzylphthalate	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Carbazole	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Chloroaniline	ND	0.75	0.069	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Chloro-3-methylphenol	ND	0.75	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Chrysene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Dibenz(a,h)anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
3,3-Dichlorobenzidine	ND	0.19	0.084	mg/Kg dry	1	L-04	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Diethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dimethylphenol	ND	0.39	0.089	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Dimethylphthalate	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dinitrophenol	ND	0.75	0.30	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4-Dinitrotoluene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Fluoranthene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Fluorene	ND	0.19	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Hexachlorobenzene	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Hexachlorocyclopentadiene	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Indeno(1,2,3-cd)pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Isophorone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
1-Methylnaphthalene	ND	0.19	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Methylnaphthalene	ND	0.19	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
3/4-Methylphenol	ND	0.39	0.051	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Naphthalene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Nitroaniline	ND	0.39	0.047	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
3-Nitroaniline	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Nitroaniline	ND	0.39	0.043	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
4-Nitrophenol	ND	0.75	0.10	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
N-Nitrosodi-n-propylamine	ND	0.39	0.054	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Phenanthrene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Phenol	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Pyrene	ND	0.19	0.040	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
Pyridine	ND	0.39	0.045	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/23/24	10/24/24 15:22	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4,5-Trichlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:22	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	58.5	30-130		10/24/24 15:22
Phenol-d6	53.4	30-130		10/24/24 15:22
Nitrobenzene-d5	57.0	30-130		10/24/24 15:22
2-Fluorobiphenyl	57.2	30-130		10/24/24 15:22
2,4,6-Tribromophenol	62.4	30-130		10/24/24 15:22
p-Terphenyl-d14	61.7	30-130		10/24/24 15:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (10-15) 102224 | Sampled: 10/22/2024 09:00

Sample ID: 24J3350-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Butyl Alcohol (TBA)	16	20	3.4	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 5:44	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.96	1.0	0.17	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Naphthalene	0.58	2.0	0.25	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 5:44	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Toluene	1.3	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 5:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.4	70-130		10/25/24 5:44
Toluene-d8	97.1	70-130		10/25/24 5:44
4-Bromofluorobenzene	96.6	70-130		10/25/24 5:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	21	5.9	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Atrazine	ND	21	1.7	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzaldehyde	ND	11	0.76	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Biphenyl	ND	21	0.97	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Caprolactam	ND	11	0.75	µg/L	1	L-04	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Acenaphthene	ND	5.3	0.83	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Acenaphthylene	ND	5.3	0.67	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Acetophenone	ND	11	0.53	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Aniline	ND	21	9.4	µg/L	1	V-05	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Anthracene	ND	5.3	0.57	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(a)anthracene	ND	5.3	0.40	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(a)pyrene	ND	5.3	0.46	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(b)fluoranthene	ND	5.3	0.34	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(g,h,i)perylene	ND	5.3	0.55	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Benzo(k)fluoranthene	ND	5.3	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Bis(2-chloroethoxy)methane	ND	11	0.61	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Bis(2-chloroethyl)ether	ND	11	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,2'-oxybis(1-Chloropropane)	ND	11	0.79	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	0.34	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Bromophenylphenylether	ND	11	0.75	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Butylbenzylphthalate	ND	11	0.42	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Carbazole	ND	11	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Chloroaniline	ND	11	5.5	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Chloro-3-methylphenol	ND	11	0.67	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Chloronaphthalene	ND	11	0.85	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Chlorophenol	ND	11	0.43	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Chlorophenylphenylether	ND	11	0.92	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Chrysene	ND	5.3	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Dibenz(a,h)anthracene	ND	5.3	0.50	µg/L	1	V-04	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Dibenzofuran	ND	5.3	0.90	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Di-n-butylphthalate	ND	11	0.53	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
3,3-Dichlorobenzidine	ND	11	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dichlorophenol	ND	11	0.49	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Diethylphthalate	ND	11	0.59	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dimethylphenol	ND	11	0.43	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Dimethylphthalate	ND	11	0.46	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4,6-Dinitro-2-methylphenol	ND	21	2.4	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dinitrophenol	ND	11	1.4	µg/L	1	V-04, V-05	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4-Dinitrotoluene	ND	11	0.37	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,6-Dinitrotoluene	ND	11	0.58	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Di-n-octylphthalate	ND	11	0.34	µg/L	1	V-04	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Fluoranthene	0.92	5.3	0.59	µg/L	1	J	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Fluorene	ND	5.3	0.80	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Hexachlorobenzene	ND	11	0.76	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (9.5-11.5) GW102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	11	1.3	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Hexachlorocyclopentadiene	ND	11	3.0	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Hexachloroethane	ND	11	1.3	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Indeno(1,2,3-cd)pyrene	ND	5.3	0.50	µg/L	1	V-04	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Isophorone	ND	11	0.57	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
1-Methylnaphthalene	ND	5.3	1.0	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Methylnaphthalene	ND	5.3	0.98	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Methylphenol	ND	11	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
3/4-Methylphenol	ND	11	0.51	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Naphthalene	ND	5.3	0.95	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Nitroaniline	ND	11	0.52	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
3-Nitroaniline	ND	11	0.54	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Nitroaniline	ND	11	0.46	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Nitrobenzene	ND	11	0.71	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2-Nitrophenol	ND	11	0.57	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
4-Nitrophenol	ND	11	1.4	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	11	0.51	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
N-Nitrosodi-n-propylamine	ND	11	0.69	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Pentachlorophenol	ND	11	0.51	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Phenanthrene	2.5	5.3	0.75	µg/L	1	J	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Phenol	ND	11	0.62	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Pyrene	0.66	5.3	0.48	µg/L	1	J	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
Pyridine	ND	21	5.4	µg/L	1	V-34	SW-846 8270E	10/29/24	10/31/24 20:24	BGL
1,2,4,5-Tetrachlorobenzene	ND	11	1.3	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4,5-Trichlorophenol	ND	11	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL
2,4,6-Trichlorophenol	ND	11	0.40	µg/L	1		SW-846 8270E	10/29/24	10/31/24 20:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.8	15-110		10/31/24 20:24
Phenol-d6	41.3	15-110		10/31/24 20:24
Nitrobenzene-d5	79.9	30-130		10/31/24 20:24
2-Fluorobiphenyl	79.4	30-130		10/31/24 20:24
2,4,6-Tribromophenol	103	15-110		10/31/24 20:24
p-Terphenyl-d14	96.0	30-130		10/31/24 20:24

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chloroform	0.60	2.0	0.19	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.40	1.0	0.17	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Tetrachloroethylene	0.36	1.0	0.17	µg/L	1	J	SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/24/24	10/25/24 6:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.9	70-130		10/25/24 6:09
Toluene-d8	95.7	70-130		10/25/24 6:09
4-Bromofluorobenzene	99.8	70-130		10/25/24 6:09

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.7	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Atrazine	ND	20	1.7	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzaldehyde	2.6	10	0.74	µg/L	1	J	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Biphenyl	ND	20	0.94	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Caprolactam	ND	10	0.73	µg/L	1	L-04	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Acenaphthene	ND	5.1	0.80	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Acenaphthylene	ND	5.1	0.65	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Acetophenone	ND	10	0.51	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Aniline	ND	20	9.1	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Anthracene	ND	5.1	0.55	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(a)anthracene	ND	5.1	0.38	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(a)pyrene	ND	5.1	0.44	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(b)fluoranthene	ND	5.1	0.33	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(g,h,i)perylene	ND	5.1	0.53	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Benzo(k)fluoranthene	ND	5.1	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Bis(2-chloroethoxy)methane	ND	10	0.59	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Bis(2-chloroethyl)ether	ND	10	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.76	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.33	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Bromophenylphenylether	ND	10	0.73	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1	V-04	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Carbazole	ND	10	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Chloroaniline	ND	10	5.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Chloro-3-methylphenol	ND	10	0.65	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Chloronaphthalene	ND	10	0.83	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Chlorophenol	ND	10	0.42	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Chlorophenylphenylether	ND	10	0.89	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Chrysene	ND	5.1	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Dibenz(a,h)anthracene	ND	5.1	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Dibenzofuran	ND	5.1	0.87	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Di-n-butylphthalate	ND	10	0.51	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
3,3-Dichlorobenzidine	ND	10	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dichlorophenol	ND	10	0.48	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Diethylphthalate	ND	10	0.57	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dimethylphenol	ND	10	0.42	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Dimethylphthalate	ND	10	0.45	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.4	µg/L	1	V-04	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dinitrophenol	ND	10	1.4	µg/L	1	V-04, V-20	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4-Dinitrotoluene	ND	10	0.36	µg/L	1	V-20	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,6-Dinitrotoluene	ND	10	0.56	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Fluoranthene	ND	5.1	0.57	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Fluorene	ND	5.1	0.77	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Hexachlorobenzene	ND	10	0.74	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: DPT-3 (20-22) GW102224 | Sampled: 10/22/2024 11:20

Sample ID: 24J3350-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Hexachlorocyclopentadiene	ND	10	2.9	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Hexachloroethane	ND	10	1.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Indeno(1,2,3-cd)pyrene	ND	5.1	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Isophorone	ND	10	0.55	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
1-Methylnaphthalene	ND	5.1	1.0	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Methylnaphthalene	ND	5.1	0.95	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Methylphenol	ND	10	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
3/4-Methylphenol	ND	10	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Naphthalene	ND	5.1	0.92	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Nitroaniline	ND	10	0.51	µg/L	1	V-35	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
3-Nitroaniline	ND	10	0.53	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Nitroaniline	ND	10	0.45	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Nitrobenzene	ND	10	0.69	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2-Nitrophenol	ND	10	0.55	µg/L	1	V-20	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
N-Nitrosodi-n-propylamine	ND	10	0.67	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Pentachlorophenol	ND	10	0.49	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Phenanthrene	ND	5.1	0.73	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Phenol	ND	10	0.61	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Pyrene	ND	5.1	0.47	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
Pyridine	ND	20	5.2	µg/L	1	V-34	SW-846 8270E	10/23/24	10/24/24 19:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4,5-Trichlorophenol	ND	10	0.46	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	10/23/24	10/24/24 19:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	32.9	15-110		10/24/24 19:17
Phenol-d6	24.3	15-110		10/24/24 19:17
Nitrobenzene-d5	81.6	30-130		10/24/24 19:17
2-Fluorobiphenyl	77.1	30-130		10/24/24 19:17
2,4,6-Tribromophenol	87.4	15-110		10/24/24 19:17
p-Terphenyl-d14	95.9	30-130		10/24/24 19:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Amyl Alcohol (TAA)	ND	0.021	0.0044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00096	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Benzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromochloromethane	ND	0.0021	0.00088	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromodichloromethane	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromoform	ND	0.0021	0.00090	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
2-Butanone (MEK)	ND	0.041	0.0087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.042	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
n-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
sec-Butylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Carbon Disulfide	ND	0.021	0.010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Carbon Tetrachloride	ND	0.0021	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chlorobenzene	ND	0.0021	0.00049	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chlorodibromomethane	ND	0.0010	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chloroethane	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chloroform	ND	0.0041	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1	L-04, V-05	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Cyclohexane	ND	0.010	0.0042	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0041	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.00090	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1-Dichloroethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dichloroethane	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1-Dichloroethylene	ND	0.0041	0.00098	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2-Dichloropropane	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00084	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Ethanol	ND	0.21	0.041	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Ethylbenzene	ND	0.0021	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
2-Hexanone (MBK)	ND	0.021	0.0070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Methyl Acetate	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00090	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Methyl Cyclohexane	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Methylene Chloride	ND	0.021	0.00096	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0090	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Naphthalene	ND	0.0041	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
n-Propylbenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Styrene	ND	0.0021	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Tetrachloroethylene	ND	0.0021	0.00089	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Toluene	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,1-Trichloroethane	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,2-Trichloroethane	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Trichloroethylene	ND	0.0021	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,3-Trichloropropane	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00099	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Vinyl Chloride	ND	0.010	0.00080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
m+p Xylene	ND	0.0041	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
o-Xylene	ND	0.0021	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF
Xylenes (total)	ND	0.0021	0.0021	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/24/24 9:26
Toluene-d8	101	70-130		10/24/24 9:26
4-Bromofluorobenzene	97.5	70-130		10/24/24 9:26

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.68	0.047	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Atrazine	ND	0.68	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzaldehyde	ND	0.35	0.055	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Biphenyl	ND	0.68	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Caprolactam	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Acenaphthene	ND	0.17	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Acenaphthylene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Acetophenone	ND	0.35	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Aniline	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Anthracene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(a)anthracene	ND	0.17	0.028	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(a)pyrene	0.041	0.17	0.031	mg/Kg dry	1	J	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(b)fluoranthene	0.070	0.17	0.028	mg/Kg dry	1	J	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(g,h,i)perylene	ND	0.17	0.050	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Benzo(k)fluoranthene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Bis(2-chloroethoxy)methane	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Bis(2-chloroethyl)ether	ND	0.35	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.35	0.22	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.041	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Bromophenylphenylether	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Butylbenzylphthalate	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Carbazole	ND	0.17	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Chloroaniline	ND	0.67	0.061	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Chloro-3-methylphenol	ND	0.67	0.036	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Chloronaphthalene	ND	0.35	0.030	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Chlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Chlorophenylphenylether	ND	0.35	0.029	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Chrysene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Dibenz(a,h)anthracene	ND	0.17	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Dibenzofuran	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Di-n-butylphthalate	ND	0.35	0.13	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
3,3-Dichlorobenzidine	ND	0.17	0.075	mg/Kg dry	1	L-04	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Diethylphthalate	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dimethylphenol	ND	0.35	0.080	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Dimethylphthalate	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4,6-Dinitro-2-methylphenol	ND	0.35	0.27	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dinitrophenol	ND	0.67	0.27	mg/Kg dry	1	V-05	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4-Dinitrotoluene	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,6-Dinitrotoluene	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Di-n-octylphthalate	ND	0.35	0.049	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Fluoranthene	0.050	0.17	0.028	mg/Kg dry	1	J	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Fluorene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Hexachlorobenzene	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.35	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Hexachlorocyclopentadiene	ND	0.35	0.23	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Hexachloroethane	ND	0.35	0.032	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Indeno(1,2,3-cd)pyrene	ND	0.17	0.056	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Isophorone	ND	0.35	0.037	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
1-Methylnaphthalene	ND	0.17	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Methylnaphthalene	ND	0.17	0.029	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
3/4-Methylphenol	ND	0.35	0.046	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Naphthalene	ND	0.17	0.061	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Nitroaniline	ND	0.35	0.042	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
3-Nitroaniline	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Nitroaniline	ND	0.35	0.039	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Nitrobenzene	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2-Nitrophenol	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
4-Nitrophenol	ND	0.67	0.092	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
N-Nitrosodi-n-propylamine	ND	0.35	0.048	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Pentachlorophenol	ND	0.35	0.12	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Phenanthrene	ND	0.17	0.031	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Phenol	ND	0.35	0.044	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Pyrene	0.050	0.17	0.036	mg/Kg dry	1	J	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
Pyridine	ND	0.35	0.040	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/23/24	10/24/24 15:45	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.034	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4,5-Trichlorophenol	ND	0.35	0.035	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC
2,4,6-Trichlorophenol	ND	0.35	0.033	mg/Kg dry	1		SW-846 8270E	10/23/24	10/24/24 15:45	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.0	30-130		10/24/24 15:45
Phenol-d6	40.0	30-130		10/24/24 15:45
Nitrobenzene-d5	46.4	30-130		10/24/24 15:45
2-Fluorobiphenyl	44.1	30-130		10/24/24 15:45
2,4,6-Tribromophenol	49.5	30-130		10/24/24 15:45
p-Terphenyl-d14	52.5	30-130		10/24/24 15:45

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.051	0.040	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 15:54	GJB
1,4-Dioxane	ND	0.050	0.040	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 6:25	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	31.4	15-110		11/15/24 6:25
1,4-Dioxane-d8	53.1	15-110		11/12/24 15:54

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.044	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorohexanoic acid (PFHxA)	ND	0.19	0.032	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoroheptanoic acid (PFHpA)	0.021	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorooctanoic acid (PFOA)	0.046	0.19	0.030	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorononanoic acid (PFNA)	0.028	0.19	0.013	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorodecanoic acid (PFDA)	0.036	0.19	0.017	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoroundecanoic acid (PFUnA)	0.078	0.19	0.023	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorododecanoic acid (PFDoA)	0.073	0.19	0.021	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorotridecanoic acid (PFTrDA)	0.067	0.19	0.021	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorotetradecanoic acid (PFTeDA)	0.068	0.19	0.020	µg/kg dry	1	J	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.025	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.076	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorooctanesulfonic acid (PFOS)	0.30	0.19	0.031	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.031	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.090	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.024	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.035	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.029	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.049	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.086	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	0.18	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	1.3	µg/kg dry	1	V-05	Draft Method 1633	10/30/24	11/2/24 19:53	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	1.5	µg/kg dry	1	V-05	Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.058	µg/kg dry	1		Draft Method 1633	10/30/24	11/2/24 19:53	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	111	10-130		11/2/24 19:53
13C5-PFPeA	99.0	35-150		11/2/24 19:53
13C5-PFHxA	90.2	55-150		11/2/24 19:53
13C4-PFHpA	91.4	55-150		11/2/24 19:53
13C8-PFOA	99.6	60-140		11/2/24 19:53
13C9-PFNA	97.2	55-140		11/2/24 19:53
13C6-PFDA	101	50-140		11/2/24 19:53
13C7-PFUnA	97.3	30-140		11/2/24 19:53
13C2-PFDoA	97.3	10-150		11/2/24 19:53
13C2-PFTeDA	88.5	10-130		11/2/24 19:53
13C3-PFBS	109	55-150		11/2/24 19:53
13C3-PFHxS	97.2	55-150		11/2/24 19:53
13C8-PFOS	96.8	45-140		11/2/24 19:53
13C2-4:2FTS	114	60-200		11/2/24 19:53
13C2-6:2FTS	105	60-200		11/2/24 19:53
13C2-8:2FTS	99.9	50-200		11/2/24 19:53
13C8-PFOSA	89.5	30-130		11/2/24 19:53
D3-NMeFOSA	82.5	15-130		11/2/24 19:53
D5-NEtFOSA	78.8	10-130		11/2/24 19:53
D3-NMeFOSAA	104	45-200		11/2/24 19:53
D5-NEtFOSAA	98.9	10-200		11/2/24 19:53
D7-NMeFOSE	75.7	10-150		11/2/24 19:53
D9-NEtFOSE	75.1	10-150		11/2/24 19:53
13C3-HFPO-DA	102	25-160		11/2/24 19:53

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.025	0.012	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
gamma-Chlordane [1]	ND	0.025	0.011	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Aldrin [1]	ND	0.025	0.0025	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
alpha-BHC [1]	ND	0.025	0.012	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
beta-BHC [1]	ND	0.025	0.013	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
delta-BHC [1]	ND	0.025	0.013	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
gamma-BHC (Lindane) [1]	ND	0.010	0.0035	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
4,4'-DDD [1]	ND	0.020	0.0042	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
4,4'-DDE [1]	ND	0.020	0.0022	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
4,4'-DDT [1]	ND	0.020	0.0026	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Dieldrin [1]	ND	0.020	0.0024	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endosulfan I [1]	ND	0.025	0.012	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endosulfan II [1]	ND	0.040	0.011	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endosulfan sulfate [1]	ND	0.040	0.0096	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endrin [2]	ND	0.040	0.010	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Endrin aldehyde [1]	ND	0.040	0.0099	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 22:03	TG
Endrin ketone [1]	ND	0.040	0.010	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Heptachlor [1]	ND	0.025	0.0027	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Heptachlor epoxide [1]	ND	0.025	0.0029	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Methoxychlor [1]	ND	0.25	0.030	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG
Toxaphene [1]	ND	0.50	0.21	mg/Kg dry	5		SW-846 8081B	10/31/24	11/8/24 17:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		11/8/24 22:03
Decachlorobiphenyl [1]	73.7	30-150		11/8/24 17:56
Decachlorobiphenyl [2]	75.7	30-150		11/8/24 22:03
Decachlorobiphenyl [2]	73.3	30-150		11/8/24 17:56
Tetrachloro-m-xylene [1]	64.8	30-150		11/8/24 17:56
Tetrachloro-m-xylene [1]	61.8	30-150		11/8/24 22:03
Tetrachloro-m-xylene [2]	67.1	30-150		11/8/24 17:56
Tetrachloro-m-xylene [2]	63.3	30-150		11/8/24 22:03

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1221 [1]	ND	0.082	0.038	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1232 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1242 [1]	ND	0.082	0.022	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1248 [1]	ND	0.082	0.020	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1254 [1]	ND	0.082	0.024	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1260 [1]	ND	0.082	0.017	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1262 [1]	ND	0.082	0.021	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG
Aroclor-1268 [1]	ND	0.082	0.021	mg/Kg dry	4		SW-846 8082A	10/25/24	10/28/24 21:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		10/28/24 21:55
Decachlorobiphenyl [2]	87.0	30-150		10/28/24 21:55
Tetrachloro-m-xylene [1]	91.7	30-150		10/28/24 21:55
Tetrachloro-m-xylene [2]	90.2	30-150		10/28/24 21:55

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4500	16	4.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Antimony	ND	1.6	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Arsenic	4.3	3.1	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 11:29	MJH
Barium	15	1.6	0.33	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Beryllium	0.24	0.16	0.048	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Cadmium	ND	0.31	0.15	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Calcium	95000	310	160	mg/Kg dry	20		SW-846 6010D	11/6/24	11/7/24 13:25	MJH
Chromium	5.2	0.63	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Cobalt	5.8	1.6	0.27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Copper	94	1.3	1.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Iron	12000	16	7.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Lead	21	0.47	0.33	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Magnesium	37000	310	73	mg/Kg dry	20		SW-846 6010D	11/6/24	11/7/24 13:25	MJH
Manganese	160	0.31	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Mercury	0.012	0.025	0.011	mg/Kg dry	1	J	SW-846 7471B	11/14/24	11/15/24 11:35	AAJ
Nickel	11	0.63	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Potassium	620	160	39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Selenium	ND	3.1	0.78	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Silver	0.73	0.31	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 11:29	MJH
Sodium	720	160	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Thallium	ND	1.6	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/7/24 11:29	MJH
Vanadium	17	0.63	0.35	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH
Zinc	63	0.63	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/6/24 20:08	MJH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (SS) 102224 | Sampled: 10/22/2024 11:30

Sample ID: 24J3350-04

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.7			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF
Cyanide	ND	0.51	0.38	mg/Kg dry	1	H-01	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (5-5.5) 102224 | Sampled: 10/22/2024 13:30

Sample ID: 24J3350-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.056	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Amyl Alcohol (TAA)	ND	0.021	0.0046	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Benzene	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromochloromethane	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromodichloromethane	ND	0.0021	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromoform	ND	0.0021	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
2-Butanone (MEK)	ND	0.043	0.0091	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Butyl Alcohol (TBA)	ND	0.11	0.044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
n-Butylbenzene	ND	0.0021	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
sec-Butylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Butylbenzene	ND	0.0021	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00093	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Carbon Disulfide	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Carbon Tetrachloride	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chlorobenzene	ND	0.0021	0.00052	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chlorodibromomethane	ND	0.0011	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chloroform	ND	0.0043	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Chloromethane	ND	0.011	0.0013	mg/Kg dry	1	L-04, V-05	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Cyclohexane	ND	0.011	0.0044	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0043	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.00094	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1-Dichloroethane	ND	0.0021	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1-Dichloroethylene	ND	0.0043	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
cis-1,2-Dichloroethylene	0.0055	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2-Dichloropropane	ND	0.0021	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00088	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Ethanol	ND	0.21	0.043	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Ethylbenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
2-Hexanone (MBK)	ND	0.021	0.0074	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Methyl Acetate	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (5-5.5) 102224 | Sampled: 10/22/2024 13:30

Sample ID: 24J3350-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Methyl Cyclohexane	ND	0.0021	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Methylene Chloride	ND	0.021	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Naphthalene	ND	0.0043	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
n-Propylbenzene	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Styrene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Tetrachloroethylene	ND	0.0021	0.00094	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Toluene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00070	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,1-Trichloroethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,2-Trichloroethane	ND	0.0021	0.00055	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Trichloroethylene	ND	0.0021	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,3-Trichloropropane	ND	0.0021	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0011	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Vinyl Chloride	ND	0.011	0.00083	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
m+p Xylene	ND	0.0043	0.0016	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF
Xylenes (total)	ND	0.0021	0.0021	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 9:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/24/24 9:51
Toluene-d8	99.6	70-130		10/24/24 9:51
4-Bromofluorobenzene	93.9	70-130		10/24/24 9:51

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (5-5.5) 102224 | Sampled: 10/22/2024 13:30

Sample ID: 24J3350-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.6			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (28.5-29) 102224 | Sampled: 10/22/2024 13:35

Sample ID: 24J3350-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	0.051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	0.00092	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Benzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromochloromethane	ND	0.0020	0.00085	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromodichloromethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromoform	ND	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Bromomethane	ND	0.0099	0.0018	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
2-Butanone (MEK)	ND	0.040	0.0084	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Butyl Alcohol (TBA)	ND	0.099	0.041	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
n-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
sec-Butylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Carbon Tetrachloride	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chlorobenzene	ND	0.0020	0.00048	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chlorodibromomethane	ND	0.00099	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chloroform	ND	0.0040	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Chloromethane	ND	0.0099	0.0012	mg/Kg dry	1	L-04, V-05	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Cyclohexane	ND	0.0099	0.0040	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	0.00072	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00087	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1-Dichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dichloroethane	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1-Dichloroethylene	ND	0.0040	0.00095	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2-Dichloropropane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
cis-1,3-Dichloropropene	ND	0.00099	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
trans-1,3-Dichloropropene	ND	0.00099	0.00076	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Diisopropyl Ether (DIPE)	ND	0.00099	0.00081	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	V-05	SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Ethylbenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
2-Hexanone (MBK)	ND	0.020	0.0068	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (28.5-29) 102224 | Sampled: 10/22/2024 13:35

Sample ID: 24J3350-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Methyl Cyclohexane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Methylene Chloride	ND	0.020	0.00093	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0087	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Naphthalene	ND	0.0040	0.00098	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
n-Propylbenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Styrene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	0.00076	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Tetrachloroethylene	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Toluene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Trichloroethylene	ND	0.0020	0.00075	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	0.0012	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	0.0010	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00095	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Vinyl Chloride	ND	0.0099	0.00077	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
m+p Xylene	ND	0.0040	0.0014	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
o-Xylene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	10/24/24	10/24/24 10:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		10/24/24 10:17
Toluene-d8	99.0	70-130		10/24/24 10:17
4-Bromofluorobenzene	96.5	70-130		10/24/24 10:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: MW-2 (28.5-29) 102224 | Sampled: 10/22/2024 13:35

Sample ID: 24J3350-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3			% Wt	1		SM 2540G	10/29/24	10/29/24 17:49	MEF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: Trip Blank 102224 | Sampled: 10/22/2024 00:00

Sample ID: 24J3350-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3350

Date Received: 10/23/2024

Field Sample #: Trip Blank 102224 | Sampled: 10/22/2024 00:00

Sample ID: 24J3350-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/24/24	10/24/24 22:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/24/24 22:04
Toluene-d8	97.7	70-130		10/24/24 22:04
4-Bromofluorobenzene	102	70-130		10/24/24 22:04

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B390329	5.28	5.00	10/30/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3350-01 [DPT-3 (10-15) 102224]	B390850	10/29/24
24J3350-04 [MW-2 (SS) 102224]	B390850	10/29/24
24J3350-05 [MW-2 (5-5.5) 102224]	B390850	10/29/24
24J3350-06 [MW-2 (28.5-29) 102224]	B390850	10/29/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B391511	1.63	50.0	11/06/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B392251	0.602	50.0	11/14/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B391053	10.2	10.0	10/31/24
24J3350-04RE1 [MW-2 (SS) 102224]	B391053	10.2	10.0	10/31/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B390367	10.0	10.0	10/25/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-01 [DPT-3 (10-15) 102224]	B390287	6.41	10.0	10/24/24
24J3350-04 [MW-2 (SS) 102224]	B390287	4.99	10.0	10/24/24
24J3350-05 [MW-2 (5-5.5) 102224]	B390287	5.86	10.0	10/24/24
24J3350-06 [MW-2 (28.5-29) 102224]	B390287	6.06	10.0	10/24/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3350-02 [DPT-3 (9.5-11.5) GW102224]	B390277	5	5.00	10/24/24
24J3350-03 [DPT-3 (20-22) GW102224]	B390277	5	5.00	10/24/24
24J3350-07 [Trip Blank 102224]	B390277	5	5.00	10/24/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-01 [DPT-3 (10-15) 102224]	B390240	30.4	1.00	10/23/24
24J3350-04 [MW-2 (SS) 102224]	B390240	30.1	1.00	10/23/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B390901	20.1	1.00	10/30/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04RE1 [MW-2 (SS) 102224]	B392039	20.3	1.00	11/12/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3350-03 [DPT-3 (20-22) GW102224]	B390206	98.0	1.00	10/23/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3350-02RE1 [DPT-3 (9.5-11.5) GW102224]	B390727	95.0	1.00	10/29/24

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3350-04 [MW-2 (SS) 102224]	B392420	1.00	50.0	11/17/24

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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 B390277 - SW-846 5030B										
Blank (B390277-BLK1)				Prepared & Analyzed: 10/24/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
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							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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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 B390277 - SW-846 5030B										
Blank (B390277-BLK1)				Prepared & Analyzed: 10/24/24						
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.00		97.7	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.00		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.00		98.8	70-130			
LCS (B390277-BS1)				Prepared & Analyzed: 10/24/24						
Acetone	88.6	50	µg/L	100.0		88.6	70-160			†
tert-Amyl Alcohol (TAA)	99.9	5.0	µg/L	100.0		99.9	70-130			
tert-Amyl Ethyl Ether (TAEE)	9.96	0.50	µg/L	10.00		99.6	70-130			
tert-Amyl Methyl Ether (TAME)	9.88	0.50	µg/L	10.00		98.8	70-130			
Benzene	10.7	1.0	µg/L	10.00		107	70-130			
Bromochloromethane	10.0	1.0	µg/L	10.00		100	70-130			
Bromodichloromethane	10.8	0.50	µg/L	10.00		108	70-130			
Bromoform	11.2	1.0	µg/L	10.00		112	70-130			
Bromomethane	10.5	2.0	µg/L	10.00		105	40-160			†
2-Butanone (MEK)	91.6	20	µg/L	100.0		91.6	40-160			†
tert-Butyl Alcohol (TBA)	96.8	20	µg/L	100.0		96.8	40-160			†
n-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130			
tert-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.32	0.50	µg/L	10.00		93.2	70-130			
Carbon Disulfide	101	5.0	µg/L	100.0		101	70-130			
Carbon Tetrachloride	11.1	5.0	µg/L	10.00		111	70-130			
Chlorobenzene	11.4	1.0	µg/L	10.00		114	70-130			
Chlorodibromomethane	11.3	0.50	µg/L	10.00		113	70-130			
Chloroethane	9.24	2.0	µg/L	10.00		92.4	70-130			
Chloroform	9.68	2.0	µg/L	10.00		96.8	70-130			
Chloromethane	8.46	2.0	µg/L	10.00		84.6	40-160			†
Cyclohexane	9.75	5.0	µg/L	10.00		97.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00		102	70-130			
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.00		111	70-130			
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.00		112	70-130			
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130			
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.00		106	70-130			
Dichlorodifluoromethane (Freon 12)	11.6	2.0	µg/L	10.00		116	40-160			†
1,1-Dichloroethane	10.2	1.0	µg/L	10.00		102	70-130			
1,2-Dichloroethane	9.39	1.0	µg/L	10.00		93.9	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 B390277 - SW-846 5030B										
LCS (B390277-BS1)				Prepared & Analyzed: 10/24/24						
1,1-Dichloroethylene	10.3	1.0	µg/L	10.00		103	70-130			
cis-1,2-Dichloroethylene	9.90	1.0	µg/L	10.00		99.0	70-130			
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.00		101	70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.00		102	70-130			
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.00		106	70-130			
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130			
Diisopropyl Ether (DIPE)	9.43	0.50	µg/L	10.00		94.3	70-130			
Ethanol	95.7	50	µg/L	100.0		95.7	40-160			
Ethylbenzene	11.1	1.0	µg/L	10.00		111	70-130			
2-Hexanone (MBK)	108	10	µg/L	100.0		108	70-160			†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.00		112	70-130			
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.00		103	70-130			
Methyl Acetate	9.92	1.0	µg/L	10.00		99.2	70-130			
Methyl tert-Butyl Ether (MTBE)	9.56	1.0	µg/L	10.00		95.6	70-130			
Methyl Cyclohexane	10.2	1.0	µg/L	10.00		102	70-130			
Methylene Chloride	10.2	5.0	µg/L	10.00		102	70-130			
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100.0		109	70-160			†
Naphthalene	10.8	2.0	µg/L	10.00		108	40-130			†
n-Propylbenzene	10.9	1.0	µg/L	10.00		109	70-130			
Styrene	11.1	1.0	µg/L	10.00		111	70-130			
1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.00		110	70-130			
Tetrachloroethylene	11.7	1.0	µg/L	10.00		117	70-130			
Toluene	11.0	1.0	µg/L	10.00		110	70-130			
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.00		117	70-130			
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130			
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.00		110	70-130			
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.00		111	70-130			
Trichloroethylene	11.2	1.0	µg/L	10.00		112	70-130			
Trichlorofluoromethane (Freon 11)	10.9	2.0	µg/L	10.00		109	70-130			
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.00		110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00		104	70-130			
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.00		109	70-130			
Vinyl Chloride	9.97	2.0	µg/L	10.00		99.7	40-160			†
m+p Xylene	22.5	2.0	µg/L	20.00		113	70-130			
o-Xylene	11.3	1.0	µg/L	10.00		113	70-130			
Xylenes (total)	33.8	1.0	µg/L	30.00		113	0-200			
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.00		96.0	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.00		100	70-130			
LCS Dup (B390277-BSD1)				Prepared & Analyzed: 10/24/24						
Acetone	89.5	50	µg/L	100.0		89.5	70-160	0.988	25	†
tert-Amyl Alcohol (TAA)	97.2	5.0	µg/L	100.0		97.2	70-130	2.71	25	
tert-Amyl Ethyl Ether (TAEE)	9.91	0.50	µg/L	10.00		99.1	70-130	0.503	25	
tert-Amyl Methyl Ether (TAME)	9.88	0.50	µg/L	10.00		98.8	70-130	0.00	25	
Benzene	10.5	1.0	µg/L	10.00		105	70-130	1.60	25	
Bromochloromethane	10.1	1.0	µg/L	10.00		101	70-130	1.09	25	
Bromodichloromethane	10.7	0.50	µg/L	10.00		107	70-130	0.838	25	
Bromoform	11.2	1.0	µg/L	10.00		112	70-130	0.804	25	
Bromomethane	10.1	2.0	µg/L	10.00		101	40-160	3.40	25	†
2-Butanone (MEK)	89.5	20	µg/L	100.0		89.5	40-160	2.31	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 B390277 - SW-846 5030B										
LCS Dup (B390277-BSD1)				Prepared & Analyzed: 10/24/24						
tert-Butyl Alcohol (TBA)	98.7	20	µg/L	100.0		98.7	40-160	1.92	25	†
n-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	0.971	25	
sec-Butylbenzene	10.6	1.0	µg/L	10.00		106	70-130	1.23	25	
tert-Butylbenzene	10.8	1.0	µg/L	10.00		108	70-130	2.92	25	
tert-Butyl Ethyl Ether (TBEE)	9.60	0.50	µg/L	10.00		96.0	70-130	2.96	25	
Carbon Disulfide	102	5.0	µg/L	100.0		102	70-130	0.256	25	
Carbon Tetrachloride	11.1	5.0	µg/L	10.00		111	70-130	0.540	25	
Chlorobenzene	11.6	1.0	µg/L	10.00		116	70-130	1.92	25	
Chlorodibromomethane	11.2	0.50	µg/L	10.00		112	70-130	0.800	25	
Chloroethane	9.04	2.0	µg/L	10.00		90.4	70-130	2.19	25	
Chloroform	10.0	2.0	µg/L	10.00		100	70-130	3.55	25	
Chloromethane	8.57	2.0	µg/L	10.00		85.7	40-160	1.29	25	†
Cyclohexane	9.72	5.0	µg/L	10.00		97.2	70-130	0.308	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.61	5.0	µg/L	10.00		96.1	70-130	6.35	25	
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112	70-130	0.718	25	
1,2-Dichlorobenzene	11.6	1.0	µg/L	10.00		116	70-130	3.07	25	
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	0.742	25	
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	4.63	25	
Dichlorodifluoromethane (Freon 12)	11.2	2.0	µg/L	10.00		112	40-160	3.16	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.00		103	70-130	0.587	25	
1,2-Dichloroethane	9.41	1.0	µg/L	10.00		94.1	70-130	0.213	25	
1,1-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130	0.389	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130	3.47	25	
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.00		101	70-130	0.396	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.00		102	70-130	0.391	25	
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.00		103	70-130	2.69	25	
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.00		103	70-130	1.07	25	
Diisopropyl Ether (DIPE)	9.61	0.50	µg/L	10.00		96.1	70-130	1.89	25	
Ethanol	93.4	50	µg/L	100.0		93.4	40-160	2.49	25	
Ethylbenzene	11.2	1.0	µg/L	10.00		112	70-130	0.538	25	
2-Hexanone (MBK)	105	10	µg/L	100.0		105	70-160	2.52	25	†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00		110	70-130	1.81	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.00		106	70-130	3.05	25	
Methyl Acetate	9.96	1.0	µg/L	10.00		99.6	70-130	0.402	25	
Methyl tert-Butyl Ether (MTBE)	9.62	1.0	µg/L	10.00		96.2	70-130	0.626	25	
Methyl Cyclohexane	10.1	1.0	µg/L	10.00		101	70-130	0.296	25	
Methylene Chloride	9.98	5.0	µg/L	10.00		99.8	70-130	1.98	25	
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100.0		105	70-160	4.01	25	†
Naphthalene	11.1	2.0	µg/L	10.00		111	40-130	2.19	25	†
n-Propylbenzene	11.3	1.0	µg/L	10.00		113	70-130	2.97	25	
Styrene	11.4	1.0	µg/L	10.00		114	70-130	2.76	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.00		109	70-130	0.547	25	
Tetrachloroethylene	11.7	1.0	µg/L	10.00		117	70-130	0.171	25	
Toluene	11.0	1.0	µg/L	10.00		110	70-130	0.637	25	
1,2,3-Trichlorobenzene	11.9	5.0	µg/L	10.00		119	70-130	1.27	25	
1,2,4-Trichlorobenzene	11.3	1.0	µg/L	10.00		113	70-130	3.60	25	
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.00		111	70-130	0.633	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.00		105	70-130	5.18	25	
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130	1.17	25	
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.00		107	70-130	2.41	25	
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.00		108	70-130	1.01	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 B390277 - SW-846 5030B										
LCS Dup (B390277-BSD1)				Prepared & Analyzed: 10/24/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00		104	70-130	0.576	25	
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.00		108	70-130	1.97	25	
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.00		111	70-130	2.09	25	
Vinyl Chloride	9.97	2.0	µg/L	10.00		99.7	40-160	0.00	25	†
m+p Xylene	22.4	2.0	µg/L	20.00		112	70-130	0.668	25	
o-Xylene	11.2	1.0	µg/L	10.00		112	70-130	0.712	25	
Xylenes (total)	33.6	1.0	µg/L	30.00		112	0-200	0.683		
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.00		92.0	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.00		99.9	70-130			
Batch B390287 - SW-846 5035										
Blank (B390287-BLK1)				Prepared & Analyzed: 10/24/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							V-05
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							

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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 B390287 - SW-846 5035										
Blank (B390287-BLK1)				Prepared & Analyzed: 10/24/24						
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0505*		mg/Kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.05000		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0478*		mg/Kg wet	0.05000		95.5	70-130			
LCS (B390287-BS1)				Prepared & Analyzed: 10/24/24						
Acetone	0.238	0.10	mg/Kg wet	0.2000		119	70-160			†
tert-Amyl Alcohol (TAA)	0.173	0.020	mg/Kg wet	0.2000		86.6	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0161	0.0020	mg/Kg wet	0.02000		80.4	70-130			
tert-Amyl Methyl Ether (TAME)	0.0196	0.0010	mg/Kg wet	0.02000		97.8	70-130			
Benzene	0.0165	0.0020	mg/Kg wet	0.02000		82.5	70-130			
Bromochloromethane	0.0213	0.0020	mg/Kg wet	0.02000		106	70-130			
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.02000		91.1	70-130			
Bromoform	0.0233	0.0020	mg/Kg wet	0.02000		116	70-130			
Bromomethane	0.0150	0.010	mg/Kg wet	0.02000		75.2	40-130			†
2-Butanone (MEK)	0.193	0.040	mg/Kg wet	0.2000		96.5	70-160			†
tert-Butyl Alcohol (TBA)	0.180	0.10	mg/Kg wet	0.2000		90.1	40-130			†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.2	70-130			
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.02000		108	70-130			
tert-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.02000		106	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.02000		93.8	70-130			
Carbon Disulfide	0.0146	0.020	mg/Kg wet	0.02000		72.8	70-130			J
Carbon Tetrachloride	0.0197	0.0020	mg/Kg wet	0.02000		98.3	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 B390287 - SW-846 5035												
LCS (B390287-BS1)				Prepared & Analyzed: 10/24/24								
Chlorobenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.2		70-130				
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.02000		97.1		70-130				
Chloroethane	0.0146	0.020	mg/Kg wet	0.02000		73.1		70-130			J	
Chloroform	0.0189	0.0040	mg/Kg wet	0.02000		94.5		70-130				
Chloromethane	0.0124	0.010	mg/Kg wet	0.02000		**62.2**	*	70-130			L-04, V-05	
Cyclohexane	0.0163	0.010	mg/Kg wet	0.02000		81.7		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0194	0.0040	mg/Kg wet	0.02000		96.9		70-130				
1,2-Dibromoethane (EDB)	0.0183	0.0010	mg/Kg wet	0.02000		91.3		70-130				
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.02000		99.2		70-130				
1,3-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.02000		102		70-130				
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.1		70-130				
Dichlorodifluoromethane (Freon 12)	0.0150	0.020	mg/Kg wet	0.02000		75.2		40-160			J, V-05	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.02000		94.0		70-130				
1,2-Dichloroethane	0.0165	0.0020	mg/Kg wet	0.02000		82.4		70-130				
1,1-Dichloroethylene	0.0168	0.0040	mg/Kg wet	0.02000		83.8		70-130				
cis-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.02000		90.4		70-130				
trans-1,2-Dichloroethylene	0.0168	0.0020	mg/Kg wet	0.02000		84.2		70-130				
1,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.02000		88.5		70-130				
cis-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.02000		92.4		70-130				
trans-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.02000		93.1		70-130				
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.02000		93.3		70-130				
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.02000		102		70-130				
2-Hexanone (MBK)	0.191	0.020	mg/Kg wet	0.2000		95.7		70-160				†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.02000		103		70-130				
p-Isopropyltoluene (p-Cymene)	0.0215	0.0020	mg/Kg wet	0.02000		107		70-130				
Methyl Acetate	0.0186	0.0020	mg/Kg wet	0.02000		92.9		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0170	0.0040	mg/Kg wet	0.02000		85.0		70-130				
Methyl Cyclohexane	0.0172	0.0020	mg/Kg wet	0.02000		86.1		70-130				
Methylene Chloride	0.0158	0.020	mg/Kg wet	0.02000		79.2		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.182	0.020	mg/Kg wet	0.2000		90.9		70-160				†
Naphthalene	0.0174	0.0040	mg/Kg wet	0.02000		86.8		40-130				†
n-Propylbenzene	0.0204	0.0020	mg/Kg wet	0.02000		102		70-130				
Styrene	0.0202	0.0020	mg/Kg wet	0.02000		101		70-130				
1,1,2,2-Tetrachloroethane	0.0224	0.0010	mg/Kg wet	0.02000		112		70-130				
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		91.2		70-130				
Toluene	0.0167	0.0020	mg/Kg wet	0.02000		83.7		70-130				
1,2,3-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.02000		87.2		70-130				
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.02000		91.0		70-130				
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.02000		96.5		70-130				
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.02000		98.0		70-130				
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.02000		88.6		70-130				
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.02000		89.8		70-130				
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.02000		105		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0206	0.010	mg/Kg wet	0.02000		103		70-130				
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.02000		99.0		70-130				
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.02000		99.9		70-130				
Vinyl Chloride	0.0134	0.010	mg/Kg wet	0.02000		67.0		40-130				†
m+p Xylene	0.0388	0.0040	mg/Kg wet	0.04000		97.0		70-130				
o-Xylene	0.0201	0.0020	mg/Kg wet	0.02000		100		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0490*		mg/Kg wet	0.05000		98.0		70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.05000		101		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 B390287 - SW-846 5035												
LCS (B390287-BS1)				Prepared & Analyzed: 10/24/24								
Surrogate: 4-Bromofluorobenzene	*0.0496*		mg/Kg wet	0.05000		99.1		70-130				
LCS (B390287-BS2)				Prepared & Analyzed: 10/24/24								
Ethanol	0.113	0.20	mg/Kg wet	0.2000		56.4		40-160			J, V-05	
Surrogate: 1,2-Dichloroethane-d4	*0.0501*		mg/Kg wet	0.05000		100		70-130				
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0488*		mg/Kg wet	0.05000		97.6		70-130				
LCS Dup (B390287-BSD1)				Prepared & Analyzed: 10/24/24								
Acetone	0.209	0.10	mg/Kg wet	0.2000		104		70-160	13.3	25		†
tert-Amyl Alcohol (TAA)	0.156	0.020	mg/Kg wet	0.2000		77.8		70-130	10.8	25		
tert-Amyl Ethyl Ether (TAEE)	0.0159	0.0020	mg/Kg wet	0.02000		79.6		70-130	1.00	25		
tert-Amyl Methyl Ether (TAME)	0.0195	0.0010	mg/Kg wet	0.02000		97.4		70-130	0.410	25		
Benzene	0.0158	0.0020	mg/Kg wet	0.02000		79.2		70-130	4.08	25		
Bromochloromethane	0.0191	0.0020	mg/Kg wet	0.02000		95.7		70-130	10.5	25		
Bromodichloromethane	0.0179	0.0020	mg/Kg wet	0.02000		89.7		70-130	1.55	25		
Bromoform	0.0211	0.0020	mg/Kg wet	0.02000		106		70-130	9.82	25		
Bromomethane	0.0157	0.010	mg/Kg wet	0.02000		78.4		40-130	4.17	25		†
2-Butanone (MEK)	0.177	0.040	mg/Kg wet	0.2000		88.7		70-160	8.44	25		†
tert-Butyl Alcohol (TBA)	0.156	0.10	mg/Kg wet	0.2000		78.1		40-130	14.3	25		†
n-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.02000		93.2		70-130	5.22	25		
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.02000		103		70-130	4.66	25		
tert-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.02000		104		70-160	1.62	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0178	0.0010	mg/Kg wet	0.02000		89.2		70-130	5.03	25		
Carbon Disulfide	0.0139	0.020	mg/Kg wet	0.02000		**69.6**	*	70-130	4.49	25	J, L-07	
Carbon Tetrachloride	0.0177	0.0020	mg/Kg wet	0.02000		88.7		70-130	10.3	25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.02000		94.1		70-130	3.24	25		
Chlorodibromomethane	0.0193	0.0010	mg/Kg wet	0.02000		96.3		70-130	0.827	25		
Chloroethane	0.0132	0.020	mg/Kg wet	0.02000		**66.1**	*	70-130	10.1	25	J, L-07	
Chloroform	0.0185	0.0040	mg/Kg wet	0.02000		92.3		70-130	2.36	25		
Chloromethane	0.0113	0.010	mg/Kg wet	0.02000		**56.6**	*	70-130	9.43	25	L-04, V-05	
Cyclohexane	0.0155	0.010	mg/Kg wet	0.02000		77.3		70-130	5.53	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0196	0.0040	mg/Kg wet	0.02000		97.9		70-130	1.03	25		
1,2-Dibromoethane (EDB)	0.0171	0.0010	mg/Kg wet	0.02000		85.7		70-130	6.33	25		
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.3		70-130	0.911	25		
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		97.9		70-130	4.10	25		
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.02000		97.3		70-130	0.819	25		
Dichlorodifluoromethane (Freon 12)	0.0139	0.020	mg/Kg wet	0.02000		69.4		40-160	8.02	25	J, V-05	†
1,1-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.02000		89.5		70-130	4.90	25		
1,2-Dichloroethane	0.0164	0.0020	mg/Kg wet	0.02000		82.1		70-130	0.365	25		
1,1-Dichloroethylene	0.0162	0.0040	mg/Kg wet	0.02000		81.0		70-130	3.40	25		
cis-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.02000		88.6		70-130	2.01	25		
trans-1,2-Dichloroethylene	0.0155	0.0020	mg/Kg wet	0.02000		77.7		70-130	8.03	25		
1,2-Dichloropropane	0.0166	0.0020	mg/Kg wet	0.02000		83.1		70-130	6.29	25		
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.02000		88.8		70-130	3.97	25		
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.02000		91.5		70-130	1.73	25		
Diisopropyl Ether (DIPE)	0.0179	0.0010	mg/Kg wet	0.02000		89.6		70-130	4.05	25		
Ethylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.3		70-130	9.30	25		
2-Hexanone (MBK)	0.180	0.020	mg/Kg wet	0.2000		90.1		70-160	6.07	25		†
Isopropylbenzene (Cumene)	0.0188	0.0020	mg/Kg wet	0.02000		94.2		70-130	9.02	25		
p-Isopropyltoluene (p-Cymene)	0.0204	0.0020	mg/Kg wet	0.02000		102		70-130	4.87	25		
Methyl Acetate	0.0175	0.0020	mg/Kg wet	0.02000		87.4		70-130	6.10	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 B390287 - SW-846 5035											
LCS Dup (B390287-BSD1)				Prepared & Analyzed: 10/24/24							
Methyl tert-Butyl Ether (MTBE)	0.0169	0.0040	mg/Kg wet	0.02000		84.7	70-130	0.354	25		
Methyl Cyclohexane	0.0160	0.0020	mg/Kg wet	0.02000		79.9	70-130	7.47	25		
Methylene Chloride	0.0155	0.020	mg/Kg wet	0.02000		77.4	40-160	2.30	25	J	†
4-Methyl-2-pentanone (MIBK)	0.177	0.020	mg/Kg wet	0.2000		88.6	70-160	2.51	25		†
Naphthalene	0.0173	0.0040	mg/Kg wet	0.02000		86.3	40-130	0.578	25		†
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.3	70-130	8.04	25		
Styrene	0.0199	0.0020	mg/Kg wet	0.02000		99.4	70-130	1.60	25		
1,1,2,2-Tetrachloroethane	0.0214	0.0010	mg/Kg wet	0.02000		107	70-130	4.66	25		
Tetrachloroethylene	0.0172	0.0020	mg/Kg wet	0.02000		85.9	70-130	5.99	25		
Toluene	0.0160	0.0020	mg/Kg wet	0.02000		80.0	70-130	4.52	25		
1,2,3-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.02000		88.8	70-130	1.82	25		
1,2,4-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.02000		89.1	70-130	2.11	25		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.02000		91.4	70-130	5.43	25		
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	3.02	25		
Trichloroethylene	0.0170	0.0020	mg/Kg wet	0.02000		84.9	70-130	4.27	25		
Trichlorofluoromethane (Freon 11)	0.0169	0.010	mg/Kg wet	0.02000		84.7	70-130	5.85	25		
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.02000		97.2	70-130	7.33	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0205	0.010	mg/Kg wet	0.02000		102	70-130	0.779	25		
1,2,4-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.5	70-130	2.56	25		
1,3,5-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.6	70-130	3.36	25		
Vinyl Chloride	0.0130	0.010	mg/Kg wet	0.02000		65.1	40-130	2.88	25		†
m+p Xylene	0.0374	0.0040	mg/Kg wet	0.04000		93.6	70-130	3.57	25		
o-Xylene	0.0190	0.0020	mg/Kg wet	0.02000		94.8	70-130	5.84	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0490*		mg/Kg wet	0.05000		98.0	70-130				
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.05000		100	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0486*		mg/Kg wet	0.05000		97.2	70-130				
LCS Dup (B390287-BSD2)				Prepared & Analyzed: 10/24/24							
Ethanol	0.0971	0.20	mg/Kg wet	0.2000		48.5	40-160	14.9	25	J, V-05	
Surrogate: 1,2-Dichloroethane-d4	*0.0502*		mg/Kg wet	0.05000		100	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.05000		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0488*		mg/Kg wet	0.05000		97.5	70-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390206 - SW-846 3510C										
Blank (B390206-BLK1)				Prepared: 10/23/24 Analyzed: 10/24/24						
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							
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							V-04
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							V-04
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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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 B390206 - SW-846 3510C											
Blank (B390206-BLK1)				Prepared: 10/23/24 Analyzed: 10/24/24							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								V-35
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	*198*		µg/L	400.0		49.6		15-110			
Surrogate: Phenol-d6	*149*		µg/L	400.0		37.2		15-110			
Surrogate: Nitrobenzene-d5	*174*		µg/L	200.0		87.0		30-130			
Surrogate: 2-Fluorobiphenyl	*161*		µg/L	200.0		80.5		30-130			
Surrogate: 2,4,6-Tribromophenol	*340*		µg/L	400.0		84.9		15-110			
Surrogate: p-Terphenyl-d14	*187*		µg/L	200.0		93.3		30-130			
LCS (B390206-BS1)				Prepared: 10/23/24 Analyzed: 10/24/24							
2,3,4,6-Tetrachlorophenol	98.0	20	µg/L	100.0		98.0		40-140			
Atrazine	124	20	µg/L	100.0		124		40-140			
Benzaldehyde	105	10	µg/L	100.0		105		40-140			
Biphenyl	106	20	µg/L	100.0		106		40-140			
Caprolactam	37.5	10	µg/L	100.0		**37.5**	*	40-140			L-04
Acenaphthene	89.3	5.0	µg/L	100.0		89.3		40-140			
Acenaphthylene	91.9	5.0	µg/L	100.0		91.9		40-140			
Acetophenone	107	10	µg/L	100.0		107		40-140			
Aniline	69.8	20	µg/L	100.0		69.8		40-140			
Anthracene	95.4	5.0	µg/L	100.0		95.4		40-140			
Benzo(a)anthracene	93.2	5.0	µg/L	100.0		93.2		40-140			
Benzo(a)pyrene	95.1	5.0	µg/L	100.0		95.1		40-140			
Benzo(b)fluoranthene	99.2	5.0	µg/L	100.0		99.2		40-140			
Benzo(g,h,i)perylene	101	5.0	µg/L	100.0		101		40-140			
Benzo(k)fluoranthene	98.5	5.0	µg/L	100.0		98.5		40-140			
Bis(2-chloroethoxy)methane	90.8	10	µg/L	100.0		90.8		40-140			
Bis(2-chloroethyl)ether	85.6	10	µg/L	100.0		85.6		40-140			
2,2'-oxybis(1-Chloropropane)	89.2	10	µg/L	100.0		89.2		40-140			
Bis(2-Ethylhexyl)phthalate	102	10	µg/L	100.0		102		40-140			
4-Bromophenylphenylether	92.0	10	µg/L	100.0		92.0		40-140			
Butylbenzylphthalate	113	10	µg/L	100.0		113		40-140			V-04
Carbazole	95.6	10	µg/L	100.0		95.6		40-140			
4-Chloroaniline	90.8	10	µg/L	100.0		90.8		40-140			
4-Chloro-3-methylphenol	90.9	10	µg/L	100.0		90.9		30-130			
2-Chloronaphthalene	77.7	10	µg/L	100.0		77.7		40-140			
2-Chlorophenol	82.4	10	µg/L	100.0		82.4		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B390206 - SW-846 3510C											
LCS (B390206-BS1)				Prepared: 10/23/24 Analyzed: 10/24/24							
4-Chlorophenylphenylether	90.6	10	µg/L	100.0		90.6	40-140				
Chrysene	92.3	5.0	µg/L	100.0		92.3	40-140				
Dibenz(a,h)anthracene	99.2	5.0	µg/L	100.0		99.2	40-140				
Dibenzofuran	92.6	5.0	µg/L	100.0		92.6	40-140				
Di-n-butylphthalate	98.7	10	µg/L	100.0		98.7	40-140				
3,3-Dichlorobenzidine	47.9	10	µg/L	100.0		47.9	40-140				
2,4-Dichlorophenol	90.3	10	µg/L	100.0		90.3	30-130				
Diethylphthalate	93.7	10	µg/L	100.0		93.7	40-140				
2,4-Dimethylphenol	90.5	10	µg/L	100.0		90.5	30-130				
Dimethylphthalate	94.2	10	µg/L	100.0		94.2	40-140				
4,6-Dinitro-2-methylphenol	102	20	µg/L	100.0		102	30-130			V-04	
2,4-Dinitrophenol	110	10	µg/L	100.0		110	30-130			V-04	
2,4-Dinitrotoluene	107	10	µg/L	100.0		107	40-140				
2,6-Dinitrotoluene	109	10	µg/L	100.0		109	40-140				
Di-n-octylphthalate	103	10	µg/L	100.0		103	40-140			V-04	
Fluoranthene	98.8	5.0	µg/L	100.0		98.8	40-140				
Fluorene	93.1	5.0	µg/L	100.0		93.1	40-140				
Hexachlorobenzene	96.6	10	µg/L	100.0		96.6	40-140				
Hexachlorobutadiene	61.2	10	µg/L	100.0		61.2	40-140			R-06	
Hexachlorocyclopentadiene	76.1	10	µg/L	100.0		76.1	30-140				†
Hexachloroethane	59.3	10	µg/L	100.0		59.3	40-140				
Indeno(1,2,3-cd)pyrene	103	5.0	µg/L	100.0		103	40-140				
Isophorone	94.0	10	µg/L	100.0		94.0	40-140				
1-Methylnaphthalene	77.6	5.0	µg/L	100.0		77.6	40-140				
2-Methylnaphthalene	75.3	5.0	µg/L	100.0		75.3	40-140				
2-Methylphenol	79.6	10	µg/L	100.0		79.6	30-130				
3/4-Methylphenol	78.9	10	µg/L	100.0		78.9	30-130				
Naphthalene	75.2	5.0	µg/L	100.0		75.2	40-140			R-06	
2-Nitroaniline	122	10	µg/L	100.0		122	40-140			V-35	
3-Nitroaniline	103	10	µg/L	100.0		103	40-140				
4-Nitroaniline	102	10	µg/L	100.0		102	40-140				
Nitrobenzene	85.4	10	µg/L	100.0		85.4	40-140				
2-Nitrophenol	96.2	10	µg/L	100.0		96.2	30-130			R-05	
4-Nitrophenol	56.3	10	µg/L	100.0		56.3	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	89.3	10	µg/L	100.0		89.3	40-140				
N-Nitrosodi-n-propylamine	83.1	10	µg/L	100.0		83.1	40-140				
Pentachlorophenol	92.8	10	µg/L	100.0		92.8	30-130				
Phenanthrene	94.4	5.0	µg/L	100.0		94.4	40-140				
Phenol	44.4	10	µg/L	100.0		44.4	20-130				†
Pyrene	93.0	5.0	µg/L	100.0		93.0	40-140				
Pyridine	18.1	20	µg/L	100.0		18.1	10-140			J, V-34	†
1,2,4,5-Tetrachlorobenzene	102	10	µg/L	100.0		102	40-140				
2,4,5-Trichlorophenol	91.0	10	µg/L	100.0		91.0	30-130				
2,4,6-Trichlorophenol	92.7	10	µg/L	100.0		92.7	30-130				
Surrogate: 2-Fluorophenol	*272*		µg/L	400.0		68.1	15-110				
Surrogate: Phenol-d6	*200*		µg/L	400.0		50.0	15-110				
Surrogate: Nitrobenzene-d5	*196*		µg/L	200.0		98.1	30-130				
Surrogate: 2-Fluorobiphenyl	*182*		µg/L	200.0		91.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*477*		µg/L	400.0		**119**	* 15-110			S-07	
Surrogate: p-Terphenyl-d14	*196*		µg/L	200.0		98.0	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 B390206 - SW-846 3510C												
LCS Dup (B390206-BSD1)				Prepared: 10/23/24 Analyzed: 10/24/24								
2,3,4,6-Tetrachlorophenol	98.1	20	µg/L	100.0		98.1		40-140	0.133	20		
Atrazine	123	20	µg/L	100.0		123		40-140	0.905	20		
Benzaldehyde	87.9	10	µg/L	100.0		87.9		40-140	17.6	20		
Biphenyl	93.0	20	µg/L	100.0		93.0		40-140	12.7	20		
Caprolactam	37.9	10	µg/L	100.0		**37.9**	*	40-140	1.06	20	L-04	
Acenaphthene	81.5	5.0	µg/L	100.0		81.5		40-140	9.14	20		
Acenaphthylene	84.4	5.0	µg/L	100.0		84.4		40-140	8.45	20		
Acetophenone	91.9	10	µg/L	100.0		91.9		40-140	14.9	20		
Aniline	64.9	20	µg/L	100.0		64.9		40-140	7.23	50		‡
Anthracene	93.3	5.0	µg/L	100.0		93.3		40-140	2.26	20		
Benzo(a)anthracene	91.6	5.0	µg/L	100.0		91.6		40-140	1.69	20		
Benzo(a)pyrene	93.2	5.0	µg/L	100.0		93.2		40-140	1.95	20		
Benzo(b)fluoranthene	96.0	5.0	µg/L	100.0		96.0		40-140	3.33	20		
Benzo(g,h,i)perylene	97.3	5.0	µg/L	100.0		97.3		40-140	3.38	20		
Benzo(k)fluoranthene	97.0	5.0	µg/L	100.0		97.0		40-140	1.46	20		
Bis(2-chloroethoxy)methane	78.1	10	µg/L	100.0		78.1		40-140	15.1	20		
Bis(2-chloroethyl)ether	71.3	10	µg/L	100.0		71.3		40-140	18.2	20		
2,2'-oxybis(1-Chloropropane)	74.8	10	µg/L	100.0		74.8		40-140	17.6	20		
Bis(2-Ethylhexyl)phthalate	99.5	10	µg/L	100.0		99.5		40-140	2.28	20		
4-Bromophenylphenylether	89.4	10	µg/L	100.0		89.4		40-140	2.80	20		
Butylbenzylphthalate	112	10	µg/L	100.0		112		40-140	0.894	20	V-04	
Carbazole	93.3	10	µg/L	100.0		93.3		40-140	2.38	20		
4-Chloroaniline	82.6	10	µg/L	100.0		82.6		40-140	9.54	20		
4-Chloro-3-methylphenol	89.7	10	µg/L	100.0		89.7		30-130	1.32	20		
2-Chloronaphthalene	69.1	10	µg/L	100.0		69.1		40-140	11.7	20		
2-Chlorophenol	68.0	10	µg/L	100.0		68.0		30-130	19.1	20		
4-Chlorophenylphenylether	87.1	10	µg/L	100.0		87.1		40-140	4.01	20		
Chrysene	91.9	5.0	µg/L	100.0		91.9		40-140	0.423	20		
Dibenz(a,h)anthracene	96.1	5.0	µg/L	100.0		96.1		40-140	3.24	20		
Dibenzofuran	86.1	5.0	µg/L	100.0		86.1		40-140	7.21	20		
Di-n-butylphthalate	97.4	10	µg/L	100.0		97.4		40-140	1.32	20		
3,3-Dichlorobenzidine	46.6	10	µg/L	100.0		46.6		40-140	2.88	20		
2,4-Dichlorophenol	79.8	10	µg/L	100.0		79.8		30-130	12.4	20		
Diethylphthalate	92.4	10	µg/L	100.0		92.4		40-140	1.43	20		
2,4-Dimethylphenol	79.2	10	µg/L	100.0		79.2		30-130	13.3	20		
Dimethylphthalate	93.0	10	µg/L	100.0		93.0		40-140	1.31	50		‡
4,6-Dinitro-2-methylphenol	99.5	20	µg/L	100.0		99.5		30-130	2.46	50	V-04	‡
2,4-Dinitrophenol	107	10	µg/L	100.0		107		30-130	3.14	50	V-04	‡
2,4-Dinitrotoluene	105	10	µg/L	100.0		105		40-140	1.37	20		
2,6-Dinitrotoluene	105	10	µg/L	100.0		105		40-140	3.54	20		
Di-n-octylphthalate	100	10	µg/L	100.0		100		40-140	2.36	20	V-04	
Fluoranthene	96.2	5.0	µg/L	100.0		96.2		40-140	2.63	20		
Fluorene	89.8	5.0	µg/L	100.0		89.8		40-140	3.59	20		
Hexachlorobenzene	94.1	10	µg/L	100.0		94.1		40-140	2.62	20		
Hexachlorobutadiene	45.0	10	µg/L	100.0		45.0		40-140	**30.5**	* 20	R-06	
Hexachlorocyclopentadiene	58.6	10	µg/L	100.0		58.6		30-140	25.9	50		† ‡
Hexachloroethane	44.9	10	µg/L	100.0		44.9		40-140	27.6	50		‡
Indeno(1,2,3-cd)pyrene	101	5.0	µg/L	100.0		101		40-140	1.59	50		‡
Isophorone	83.7	10	µg/L	100.0		83.7		40-140	11.5	20		
1-Methylnaphthalene	67.6	5.0	µg/L	100.0		67.6		40-140	13.8	20		
2-Methylnaphthalene	64.1	5.0	µg/L	100.0		64.1		40-140	16.1	20		
2-Methylphenol	68.5	10	µg/L	100.0		68.5		30-130	14.9	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 B390206 - SW-846 3510C											
LCS Dup (B390206-BSD1)				Prepared: 10/23/24 Analyzed: 10/24/24							
3/4-Methylphenol	70.5	10	µg/L	100.0		70.5	30-130	11.3	20		
Naphthalene	60.7	5.0	µg/L	100.0		60.7	40-140	**21.4** *	20	R-06	
2-Nitroaniline	116	10	µg/L	100.0		116	40-140	4.79	20	V-35	
3-Nitroaniline	99.4	10	µg/L	100.0		99.4	40-140	3.52	20		
4-Nitroaniline	99.0	10	µg/L	100.0		99.0	40-140	2.98	20		
Nitrobenzene	71.5	10	µg/L	100.0		71.5	40-140	17.7	20		
2-Nitrophenol	77.0	10	µg/L	100.0		77.0	30-130	**22.1** *	20	R-05	
4-Nitrophenol	54.2	10	µg/L	100.0		54.2	10-130	3.73	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	86.3	10	µg/L	100.0		86.3	40-140	3.33	20		
N-Nitrosodi-n-propylamine	74.6	10	µg/L	100.0		74.6	40-140	10.9	20		
Pentachlorophenol	92.1	10	µg/L	100.0		92.1	30-130	0.811	50		‡
Phenanthrene	92.4	5.0	µg/L	100.0		92.4	40-140	2.15	20		
Phenol	37.4	10	µg/L	100.0		37.4	20-130	17.1	20		†
Pyrene	92.1	5.0	µg/L	100.0		92.1	40-140	0.919	20		
Pyridine	18.2	20	µg/L	100.0		18.2	10-140	0.276	50	V-34, J	† ‡
1,2,4,5-Tetrachlorobenzene	86.2	10	µg/L	100.0		86.2	40-140	16.5	20		
2,4,5-Trichlorophenol	87.9	10	µg/L	100.0		87.9	30-130	3.48	20		
2,4,6-Trichlorophenol	85.0	10	µg/L	100.0		85.0	30-130	8.69	50		‡
Surrogate: 2-Fluorophenol	*215*		µg/L	400.0		53.6	15-110				
Surrogate: Phenol-d6	*159*		µg/L	400.0		39.8	15-110				
Surrogate: Nitrobenzene-d5	*155*		µg/L	200.0		77.3	30-130				
Surrogate: 2-Fluorobiphenyl	*154*		µg/L	200.0		77.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*454*		µg/L	400.0		**114** *	15-110			S-07	
Surrogate: p-Terphenyl-d14	*191*		µg/L	200.0		95.6	30-130				
Batch B390240 - SW-846 3546											
Blank (B390240-BLK1)				Prepared: 10/23/24 Analyzed: 10/24/24							
2,3,4,6-Tetrachlorophenol	ND	0.66	mg/Kg wet							V-05	
Atrazine	ND	0.66	mg/Kg wet								
Benzaldehyde	ND	0.33	mg/Kg wet							V-05	
Biphenyl	ND	0.66	mg/Kg wet								
Caprolactam	ND	0.33	mg/Kg wet								
Acenaphthene	ND	0.17	mg/Kg wet								
Acenaphthylene	ND	0.17	mg/Kg wet								
Acetophenone	ND	0.33	mg/Kg wet								
Aniline	ND	0.33	mg/Kg wet								
Anthracene	ND	0.17	mg/Kg wet								
Benzo(a)anthracene	ND	0.17	mg/Kg wet								
Benzo(a)pyrene	ND	0.17	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet								
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet								
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet								
2,2'-oxybis(1-Chloropropane)	ND	0.33	mg/Kg wet								
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet								
4-Bromophenylphenylether	ND	0.33	mg/Kg wet								
Butylbenzylphthalate	ND	0.33	mg/Kg wet								
Carbazole	ND	0.17	mg/Kg wet								
4-Chloroaniline	ND	0.65	mg/Kg wet								
4-Chloro-3-methylphenol	ND	0.65	mg/Kg wet								
2-Chloronaphthalene	ND	0.33	mg/Kg wet								

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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 B390240 - SW-846 3546										
Blank (B390240-BLK1)				Prepared: 10/23/24 Analyzed: 10/24/24						
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							L-04
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.65	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							
3/4-Methylphenol	ND	0.33	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.33	mg/Kg wet							
3-Nitroaniline	ND	0.33	mg/Kg wet							
4-Nitroaniline	ND	0.33	mg/Kg wet							
Nitrobenzene	ND	0.33	mg/Kg wet							
2-Nitrophenol	ND	0.33	mg/Kg wet							
4-Nitrophenol	ND	0.65	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet							
Pentachlorophenol	ND	0.33	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.33	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.33	mg/Kg wet							L-04, V-34
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet							
Surrogate: 2-Fluorophenol	*3.77*		mg/Kg wet	6.536		57.7	30-130			
Surrogate: Phenol-d6	*3.66*		mg/Kg wet	6.536		56.0	30-130			
Surrogate: Nitrobenzene-d5	*2.00*		mg/Kg wet	3.268		61.3	30-130			
Surrogate: 2-Fluorobiphenyl	*1.90*		mg/Kg wet	3.268		58.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.10*		mg/Kg wet	6.536		62.7	30-130			
Surrogate: p-Terphenyl-d14	*2.19*		mg/Kg wet	3.268		67.0	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 B390240 - SW-846 3546												
LCS (B390240-BS1)				Prepared: 10/23/24 Analyzed: 10/24/24								
2,3,4,6-Tetrachlorophenol	1.03	0.66	mg/Kg wet	1.635		62.9		40-140			V-05	
Atrazine	1.39	0.66	mg/Kg wet	1.635		85.0		40-140				
Benzaldehyde	1.13	0.33	mg/Kg wet	1.635		69.0		40-140			V-05	
Biphenyl	1.20	0.66	mg/Kg wet	1.635		73.5		40-140				
Caprolactam	1.33	0.33	mg/Kg wet	1.635		81.3		40-140				
Acenaphthene	0.922	0.17	mg/Kg wet	1.635		56.4		40-140				
Acenaphthylene	0.945	0.17	mg/Kg wet	1.635		57.8		40-140				
Acetophenone	1.09	0.33	mg/Kg wet	1.635		66.9		40-140				
Aniline	0.832	0.33	mg/Kg wet	1.635		50.9		10-140				†
Anthracene	0.968	0.17	mg/Kg wet	1.635		59.2		40-140				
Benzo(a)anthracene	0.898	0.17	mg/Kg wet	1.635		54.9		40-140				
Benzo(a)pyrene	0.917	0.17	mg/Kg wet	1.635		56.1		40-140				
Benzo(b)fluoranthene	0.922	0.17	mg/Kg wet	1.635		56.4		40-140				
Benzo(g,h,i)perylene	1.05	0.17	mg/Kg wet	1.635		64.1		40-140				
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.635		62.9		40-140				
Bis(2-chloroethoxy)methane	0.980	0.33	mg/Kg wet	1.635		59.9		40-140				
Bis(2-chloroethyl)ether	1.12	0.33	mg/Kg wet	1.635		68.6		40-140				
2,2'-oxybis(1-Chloropropane)	1.07	0.33	mg/Kg wet	1.635		65.4		40-140				
Bis(2-Ethylhexyl)phthalate	1.01	0.33	mg/Kg wet	1.635		62.0		40-140				
4-Bromophenylphenylether	1.05	0.33	mg/Kg wet	1.635		64.0		40-140				
Butylbenzylphthalate	1.01	0.33	mg/Kg wet	1.635		61.8		40-140				
Carbazole	0.925	0.17	mg/Kg wet	1.635		56.6		40-140				
4-Chloroaniline	0.475	0.65	mg/Kg wet	1.635		29.0		10-140			J	†
4-Chloro-3-methylphenol	0.985	0.65	mg/Kg wet	1.635		60.2		30-130				
2-Chloronaphthalene	0.830	0.33	mg/Kg wet	1.635		50.7		40-140				
2-Chlorophenol	0.860	0.33	mg/Kg wet	1.635		52.6		30-130				
4-Chlorophenylphenylether	0.992	0.33	mg/Kg wet	1.635		60.7		40-140				
Chrysene	0.838	0.17	mg/Kg wet	1.635		51.3		40-140				
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.635		64.0		40-140				
Dibenzofuran	0.941	0.33	mg/Kg wet	1.635		57.6		40-140				
Di-n-butylphthalate	1.05	0.33	mg/Kg wet	1.635		64.5		40-140				
3,3-Dichlorobenzidine	0.300	0.17	mg/Kg wet	1.635		**18.3**	*	20-140			L-04	†
2,4-Dichlorophenol	0.897	0.33	mg/Kg wet	1.635		54.8		30-130				
Diethylphthalate	1.03	0.33	mg/Kg wet	1.635		62.8		40-140				
2,4-Dimethylphenol	0.966	0.33	mg/Kg wet	1.635		59.1		30-130				
Dimethylphthalate	1.01	0.33	mg/Kg wet	1.635		61.5		40-140				
4,6-Dinitro-2-methylphenol	0.826	0.33	mg/Kg wet	1.635		50.5		30-130				
2,4-Dinitrophenol	0.769	0.65	mg/Kg wet	1.635		47.1		30-130			V-05	
2,4-Dinitrotoluene	0.921	0.33	mg/Kg wet	1.635		56.3		40-140				
2,6-Dinitrotoluene	1.01	0.33	mg/Kg wet	1.635		61.6		40-140				
Di-n-octylphthalate	1.09	0.33	mg/Kg wet	1.635		66.4		40-140				
Fluoranthene	0.954	0.17	mg/Kg wet	1.635		58.3		40-140				
Fluorene	0.894	0.17	mg/Kg wet	1.635		54.7		40-140				
Hexachlorobenzene	1.02	0.33	mg/Kg wet	1.635		62.5		40-140				
Hexachlorobutadiene	0.953	0.33	mg/Kg wet	1.635		58.3		40-140				
Hexachlorocyclopentadiene	0.822	0.33	mg/Kg wet	1.635		50.3		40-140				
Hexachloroethane	0.975	0.33	mg/Kg wet	1.635		59.6		40-140				
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.635		64.7		40-140				
Isophorone	1.04	0.33	mg/Kg wet	1.635		63.7		40-140				
1-Methylnaphthalene	0.917	0.17	mg/Kg wet	1.635		56.1		40-140				
2-Methylnaphthalene	0.882	0.17	mg/Kg wet	1.635		53.9		40-140				
2-Methylphenol	0.892	0.33	mg/Kg wet	1.635		54.5		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 B390240 - SW-846 3546												
LCS (B390240-BS1)				Prepared: 10/23/24 Analyzed: 10/24/24								
3/4-Methylphenol	0.929	0.33	mg/Kg wet	1.635		56.8		30-130				
Naphthalene	0.880	0.17	mg/Kg wet	1.635		53.8		40-140				
2-Nitroaniline	1.05	0.33	mg/Kg wet	1.635		64.2		40-140				
3-Nitroaniline	0.696	0.33	mg/Kg wet	1.635		42.6		30-140				†
4-Nitroaniline	0.719	0.33	mg/Kg wet	1.635		44.0		40-140				
Nitrobenzene	0.953	0.33	mg/Kg wet	1.635		58.3		40-140				
2-Nitrophenol	0.849	0.33	mg/Kg wet	1.635		51.9		30-130				
4-Nitrophenol	0.761	0.65	mg/Kg wet	1.635		46.5		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.00	0.33	mg/Kg wet	1.635		61.4		40-140				
N-Nitrosodi-n-propylamine	0.976	0.33	mg/Kg wet	1.635		59.7		40-140				
Pentachlorophenol	0.792	0.33	mg/Kg wet	1.635		48.4		30-130				
Phenanthrene	0.966	0.17	mg/Kg wet	1.635		59.1		40-140				
Phenol	0.873	0.33	mg/Kg wet	1.635		53.4		30-130				
Pyrene	0.877	0.17	mg/Kg wet	1.635		53.6		40-140				
Pyridine	0.302	0.33	mg/Kg wet	1.635		**18.5**	*	30-140			J, L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.11	0.33	mg/Kg wet	1.635		68.0		40-140				
2,4,5-Trichlorophenol	0.871	0.33	mg/Kg wet	1.635		53.3		30-130				
2,4,6-Trichlorophenol	0.892	0.33	mg/Kg wet	1.635		54.6		30-130				
Surrogate: 2-Fluorophenol	*4.19*		mg/Kg wet	6.540		64.0		30-130				
Surrogate: Phenol-d6	*4.15*		mg/Kg wet	6.540		63.4		30-130				
Surrogate: Nitrobenzene-d5	*2.08*		mg/Kg wet	3.270		63.8		30-130				
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/Kg wet	3.270		63.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.18*		mg/Kg wet	6.540		63.9		30-130				
Surrogate: p-Terphenyl-d14	*2.09*		mg/Kg wet	3.270		63.9		30-130				
LCS Dup (B390240-BSD1)				Prepared: 10/23/24 Analyzed: 10/24/24								
2,3,4,6-Tetrachlorophenol	1.03	0.66	mg/Kg wet	1.636		62.9		40-140	0.00184	20	V-05	
Atrazine	1.36	0.66	mg/Kg wet	1.636		83.2		40-140	2.12	30		
Benzaldehyde	1.13	0.33	mg/Kg wet	1.636		69.0		40-140	0.123	20	V-05	
Biphenyl	1.24	0.66	mg/Kg wet	1.636		75.6		40-140	2.83	20		
Caprolactam	1.36	0.33	mg/Kg wet	1.636		83.2		40-140	2.47	20		
Acenaphthene	0.946	0.17	mg/Kg wet	1.636		57.8		40-140	2.59	30		
Acenaphthylene	0.987	0.17	mg/Kg wet	1.636		60.3		40-140	4.37	30		
Acetophenone	1.05	0.33	mg/Kg wet	1.636		64.4		40-140	3.68	30		
Aniline	0.829	0.33	mg/Kg wet	1.636		50.7		10-140	0.368	50		† ‡
Anthracene	0.994	0.17	mg/Kg wet	1.636		60.7		40-140	2.60	30		
Benzo(a)anthracene	0.922	0.17	mg/Kg wet	1.636		56.4		40-140	2.65	30		
Benzo(a)pyrene	0.944	0.17	mg/Kg wet	1.636		57.7		40-140	2.91	30		
Benzo(b)fluoranthene	0.914	0.17	mg/Kg wet	1.636		55.9		40-140	0.861	30		
Benzo(g,h,i)perylene	1.09	0.17	mg/Kg wet	1.636		66.6		40-140	3.83	30		
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.636		62.3		40-140	0.861	30		
Bis(2-chloroethoxy)methane	1.01	0.33	mg/Kg wet	1.636		61.8		40-140	3.15	30		
Bis(2-chloroethyl)ether	1.13	0.33	mg/Kg wet	1.636		69.3		40-140	1.05	30		
2,2'-oxybis(1-Chloropropane)	1.05	0.33	mg/Kg wet	1.636		64.0		40-140	2.04	30		
Bis(2-Ethylhexyl)phthalate	1.04	0.33	mg/Kg wet	1.636		63.7		40-140	2.74	30		
4-Bromophenylphenylether	1.06	0.33	mg/Kg wet	1.636		64.7		40-140	1.12	30		
Butylbenzylphthalate	1.05	0.33	mg/Kg wet	1.636		63.9		40-140	3.50	30		
Carbazole	0.933	0.17	mg/Kg wet	1.636		57.0		40-140	0.840	30		
4-Chloroaniline	0.481	0.65	mg/Kg wet	1.636		29.4		10-140	1.30	30	J	†
4-Chloro-3-methylphenol	0.974	0.65	mg/Kg wet	1.636		59.5		30-130	1.10	30		
2-Chloronaphthalene	0.838	0.33	mg/Kg wet	1.636		51.2		40-140	1.05	30		
2-Chlorophenol	0.859	0.33	mg/Kg wet	1.636		52.5		30-130	0.125	30		

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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 B390240 - SW-846 3546												
LCS Dup (B390240-BSD1)				Prepared: 10/23/24 Analyzed: 10/24/24								
4-Chlorophenylphenylether	0.978	0.33	mg/Kg wet	1.636		59.8		40-140	1.50	30		
Chrysene	0.871	0.17	mg/Kg wet	1.636		53.3		40-140	3.89	30		
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.636		64.9		40-140	1.43	30		
Dibenzofuran	0.956	0.33	mg/Kg wet	1.636		58.4		40-140	1.55	30		
Di-n-butylphthalate	1.09	0.33	mg/Kg wet	1.636		66.4		40-140	3.03	30		
3,3-Dichlorobenzidine	0.308	0.17	mg/Kg wet	1.636		**18.8**	*	20-140	2.76	50	L-04	† ‡
2,4-Dichlorophenol	0.922	0.33	mg/Kg wet	1.636		56.3		30-130	2.76	30		
Diethylphthalate	1.03	0.33	mg/Kg wet	1.636		62.7		40-140	0.189	30		
2,4-Dimethylphenol	0.975	0.33	mg/Kg wet	1.636		59.6		30-130	0.942	30		
Dimethylphthalate	1.04	0.33	mg/Kg wet	1.636		63.3		40-140	2.98	30		
4,6-Dinitro-2-methylphenol	0.917	0.33	mg/Kg wet	1.636		56.1		30-130	10.5	30		
2,4-Dinitrophenol	0.683	0.65	mg/Kg wet	1.636		41.7		30-130	11.9	30	V-05	
2,4-Dinitrotoluene	0.926	0.33	mg/Kg wet	1.636		56.6		40-140	0.526	30		
2,6-Dinitrotoluene	1.02	0.33	mg/Kg wet	1.636		62.1		40-140	0.809	30		
Di-n-octylphthalate	1.12	0.33	mg/Kg wet	1.636		68.5		40-140	3.18	30		
Fluoranthene	0.960	0.17	mg/Kg wet	1.636		58.7		40-140	0.681	30		
Fluorene	0.904	0.17	mg/Kg wet	1.636		55.3		40-140	1.12	30		
Hexachlorobenzene	1.04	0.33	mg/Kg wet	1.636		63.4		40-140	1.50	30		
Hexachlorobutadiene	1.01	0.33	mg/Kg wet	1.636		61.5		40-140	5.44	30		
Hexachlorocyclopentadiene	0.856	0.33	mg/Kg wet	1.636		52.3		40-140	3.96	30		
Hexachloroethane	0.984	0.33	mg/Kg wet	1.636		60.1		40-140	0.901	30		
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.636		67.1		40-140	3.71	30		
Isophorone	1.12	0.33	mg/Kg wet	1.636		68.5		40-140	7.24	30		
1-Methylnaphthalene	0.933	0.17	mg/Kg wet	1.636		57.0		40-140	1.69	30		
2-Methylnaphthalene	0.902	0.17	mg/Kg wet	1.636		55.2		40-140	2.34	30		
2-Methylphenol	0.876	0.33	mg/Kg wet	1.636		53.6		30-130	1.75	30		
3/4-Methylphenol	0.909	0.33	mg/Kg wet	1.636		55.6		30-130	2.21	30		
Naphthalene	0.925	0.17	mg/Kg wet	1.636		56.5		40-140	4.96	30		
2-Nitroaniline	1.06	0.33	mg/Kg wet	1.636		64.8		40-140	1.09	30		
3-Nitroaniline	0.709	0.33	mg/Kg wet	1.636		43.3		30-140	1.83	30		†
4-Nitroaniline	0.741	0.33	mg/Kg wet	1.636		45.3		40-140	2.89	30		
Nitrobenzene	1.00	0.33	mg/Kg wet	1.636		61.2		40-140	4.99	30		
2-Nitrophenol	0.882	0.33	mg/Kg wet	1.636		53.9		30-130	3.81	30		
4-Nitrophenol	0.772	0.65	mg/Kg wet	1.636		47.2		30-130	1.43	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.05	0.33	mg/Kg wet	1.636		64.5		40-140	4.86	30		
N-Nitrosodi-n-propylamine	0.951	0.33	mg/Kg wet	1.636		58.1		40-140	2.68	30		
Pentachlorophenol	0.812	0.33	mg/Kg wet	1.636		49.7		30-130	2.55	30		
Phenanthrene	0.972	0.17	mg/Kg wet	1.636		59.4		40-140	0.572	30		
Phenol	0.851	0.33	mg/Kg wet	1.636		52.0		30-130	2.59	30		
Pyrene	0.928	0.17	mg/Kg wet	1.636		56.7		40-140	5.65	30		
Pyridine	0.310	0.33	mg/Kg wet	1.636		**19.0**	*	30-140	2.52	30	J, L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.18	0.33	mg/Kg wet	1.636		71.9		40-140	5.53	30		
2,4,5-Trichlorophenol	0.953	0.33	mg/Kg wet	1.636		58.2		30-130	8.96	30		
2,4,6-Trichlorophenol	0.856	0.33	mg/Kg wet	1.636		52.3		30-130	4.16	30		
Surrogate: 2-Fluorophenol	*4.09*		mg/Kg wet	6.545		62.5		30-130				
Surrogate: Phenol-d6	*4.13*		mg/Kg wet	6.545		63.2		30-130				
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.272		69.7		30-130				
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.272		65.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.19*		mg/Kg wet	6.545		64.0		30-130				
Surrogate: p-Terphenyl-d14	*2.10*		mg/Kg wet	3.272		64.2		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 B390727 - SW-846 3510C										
Blank (B390727-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24						
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, V-06
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							
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
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 B390727 - SW-846 3510C											
Blank (B390727-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24							
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	*242*		µg/L	400.0		60.5		15-110			
Surrogate: Phenol-d6	*163*		µg/L	400.0		40.8		15-110			
Surrogate: Nitrobenzene-d5	*171*		µg/L	200.0		85.3		30-130			
Surrogate: 2-Fluorobiphenyl	*163*		µg/L	200.0		81.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*421*		µg/L	400.0		105		15-110			
Surrogate: p-Terphenyl-d14	*191*		µg/L	200.0		95.6		30-130			
LCS (B390727-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24							
2,3,4,6-Tetrachlorophenol	97.1	20	µg/L	100.0		97.1		40-140			
Atrazine	122	20	µg/L	100.0		122		40-140			
Benzaldehyde	95.7	10	µg/L	100.0		95.7		40-140			
Biphenyl	97.4	20	µg/L	100.0		97.4		40-140			
Caprolactam	37.3	10	µg/L	100.0		**37.3**	*	40-140			L-04, V-06
Acenaphthene	81.1	5.0	µg/L	100.0		81.1		40-140			
Acenaphthylene	85.3	5.0	µg/L	100.0		85.3		40-140			
Acetophenone	92.9	10	µg/L	100.0		92.9		40-140			
Aniline	63.3	20	µg/L	100.0		63.3		40-140			
Anthracene	86.7	5.0	µg/L	100.0		86.7		40-140			
Benzo(a)anthracene	85.9	5.0	µg/L	100.0		85.9		40-140			
Benzo(a)pyrene	87.6	5.0	µg/L	100.0		87.6		40-140			
Benzo(b)fluoranthene	90.5	5.0	µg/L	100.0		90.5		40-140			
Benzo(g,h,i)perylene	91.4	5.0	µg/L	100.0		91.4		40-140			
Benzo(k)fluoranthene	92.0	5.0	µg/L	100.0		92.0		40-140			
Bis(2-chloroethoxy)methane	82.0	10	µg/L	100.0		82.0		40-140			
Bis(2-chloroethyl)ether	75.9	10	µg/L	100.0		75.9		40-140			
2,2'-oxybis(1-Chloropropane)	79.7	10	µg/L	100.0		79.7		40-140			
Bis(2-Ethylhexyl)phthalate	84.5	10	µg/L	100.0		84.5		40-140			
4-Bromophenylphenylether	84.7	10	µg/L	100.0		84.7		40-140			
Butylbenzylphthalate	90.2	10	µg/L	100.0		90.2		40-140			
Carbazole	88.6	10	µg/L	100.0		88.6		40-140			
4-Chloroaniline	83.7	10	µg/L	100.0		83.7		40-140			
4-Chloro-3-methylphenol	87.1	10	µg/L	100.0		87.1		30-130			
2-Chloronaphthalene	68.8	10	µg/L	100.0		68.8		40-140			
2-Chlorophenol	69.3	10	µg/L	100.0		69.3		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 B390727 - SW-846 3510C											
LCS (B390727-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24							
4-Chlorophenylphenylether	85.4	10	µg/L	100.0		85.4	40-140				
Chrysene	83.9	5.0	µg/L	100.0		83.9	40-140				
Dibenz(a,h)anthracene	88.3	5.0	µg/L	100.0		88.3	40-140			V-04	
Dibenzofuran	85.7	5.0	µg/L	100.0		85.7	40-140				
Di-n-butylphthalate	84.8	10	µg/L	100.0		84.8	40-140				
3,3-Dichlorobenzidine	43.3	10	µg/L	100.0		43.3	40-140				
2,4-Dichlorophenol	78.7	10	µg/L	100.0		78.7	30-130				
Diethylphthalate	83.8	10	µg/L	100.0		83.8	40-140				
2,4-Dimethylphenol	80.8	10	µg/L	100.0		80.8	30-130				
Dimethylphthalate	86.8	10	µg/L	100.0		86.8	40-140				
4,6-Dinitro-2-methylphenol	83.9	20	µg/L	100.0		83.9	30-130				
2,4-Dinitrophenol	79.3	10	µg/L	100.0		79.3	30-130			V-04	
2,4-Dinitrotoluene	91.1	10	µg/L	100.0		91.1	40-140				
2,6-Dinitrotoluene	91.5	10	µg/L	100.0		91.5	40-140				
Di-n-octylphthalate	86.5	10	µg/L	100.0		86.5	40-140			V-04	
Fluoranthene	88.8	5.0	µg/L	100.0		88.8	40-140				
Fluorene	87.4	5.0	µg/L	100.0		87.4	40-140				
Hexachlorobenzene	87.3	10	µg/L	100.0		87.3	40-140				
Hexachlorobutadiene	53.4	10	µg/L	100.0		53.4	40-140				
Hexachlorocyclopentadiene	73.0	10	µg/L	100.0		73.0	30-140				†
Hexachloroethane	49.9	10	µg/L	100.0		49.9	40-140				
Indeno(1,2,3-cd)pyrene	91.8	5.0	µg/L	100.0		91.8	40-140			V-04	
Isophorone	87.9	10	µg/L	100.0		87.9	40-140				
1-Methylnaphthalene	71.6	5.0	µg/L	100.0		71.6	40-140				
2-Methylnaphthalene	69.7	5.0	µg/L	100.0		69.7	40-140				
2-Methylphenol	70.2	10	µg/L	100.0		70.2	30-130				
3/4-Methylphenol	68.8	10	µg/L	100.0		68.8	30-130				
Naphthalene	67.5	5.0	µg/L	100.0		67.5	40-140				
2-Nitroaniline	104	10	µg/L	100.0		104	40-140				
3-Nitroaniline	88.4	10	µg/L	100.0		88.4	40-140				
4-Nitroaniline	87.1	10	µg/L	100.0		87.1	40-140				
Nitrobenzene	79.1	10	µg/L	100.0		79.1	40-140				
2-Nitrophenol	78.9	10	µg/L	100.0		78.9	30-130				
4-Nitrophenol	52.3	10	µg/L	100.0		52.3	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	83.0	10	µg/L	100.0		83.0	40-140				
N-Nitrosodi-n-propylamine	76.2	10	µg/L	100.0		76.2	40-140				
Pentachlorophenol	84.7	10	µg/L	100.0		84.7	30-130				
Phenanthrene	86.9	5.0	µg/L	100.0		86.9	40-140				
Phenol	39.4	10	µg/L	100.0		39.4	20-130				†
Pyrene	89.8	5.0	µg/L	100.0		89.8	40-140				
Pyridine	17.5	20	µg/L	100.0		17.5	10-140			V-34, J	†
1,2,4,5-Tetrachlorobenzene	93.4	10	µg/L	100.0		93.4	40-140				
2,4,5-Trichlorophenol	84.2	10	µg/L	100.0		84.2	30-130				
2,4,6-Trichlorophenol	85.1	10	µg/L	100.0		85.1	30-130				
Surrogate: 2-Fluorophenol	*246*		µg/L	400.0		61.4	15-110				
Surrogate: Phenol-d6	*181*		µg/L	400.0		45.1	15-110				
Surrogate: Nitrobenzene-d5	*171*		µg/L	200.0		85.7	30-130				
Surrogate: 2-Fluorobiphenyl	*169*		µg/L	200.0		84.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*438*		µg/L	400.0		109	15-110				
Surrogate: p-Terphenyl-d14	*194*		µg/L	200.0		96.9	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 B390727 - SW-846 3510C												
LCS Dup (B390727-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24								
2,3,4,6-Tetrachlorophenol	80.4	20	µg/L	100.0		80.4		40-140	18.9	20		
Atrazine	136	20	µg/L	100.0		136		40-140	11.1	20		
Benzaldehyde	104	10	µg/L	100.0		104		40-140	8.36	20		
Biphenyl	103	20	µg/L	100.0		103		40-140	6.09	20		
Caprolactam	39.5	10	µg/L	100.0		**39.5**	*	40-140	5.86	20	L-04, V-06	
Acenaphthene	85.8	5.0	µg/L	100.0		85.8		40-140	5.68	20		
Acenaphthylene	91.4	5.0	µg/L	100.0		91.4		40-140	6.96	20		
Acetophenone	101	10	µg/L	100.0		101		40-140	8.87	20		
Aniline	75.8	20	µg/L	100.0		75.8		40-140	18.0	50		‡
Anthracene	95.5	5.0	µg/L	100.0		95.5		40-140	9.58	20		
Benzo(a)anthracene	93.4	5.0	µg/L	100.0		93.4		40-140	8.37	20		
Benzo(a)pyrene	96.7	5.0	µg/L	100.0		96.7		40-140	9.86	20		
Benzo(b)fluoranthene	96.3	5.0	µg/L	100.0		96.3		40-140	6.21	20		
Benzo(g,h,i)perylene	108	5.0	µg/L	100.0		108		40-140	16.3	20		
Benzo(k)fluoranthene	97.9	5.0	µg/L	100.0		97.9		40-140	6.15	20		
Bis(2-chloroethoxy)methane	91.8	10	µg/L	100.0		91.8		40-140	11.3	20		
Bis(2-chloroethyl)ether	82.2	10	µg/L	100.0		82.2		40-140	7.91	20		
2,2'-oxybis(1-Chloropropane)	88.2	10	µg/L	100.0		88.2		40-140	10.1	20		
Bis(2-Ethylhexyl)phthalate	92.6	10	µg/L	100.0		92.6		40-140	9.23	20		
4-Bromophenylphenylether	89.7	10	µg/L	100.0		89.7		40-140	5.76	20		
Butylbenzylphthalate	97.8	10	µg/L	100.0		97.8		40-140	8.15	20		
Carbazole	96.4	10	µg/L	100.0		96.4		40-140	8.40	20		
4-Chloroaniline	90.6	10	µg/L	100.0		90.6		40-140	7.85	20		
4-Chloro-3-methylphenol	90.8	10	µg/L	100.0		90.8		30-130	4.09	20		
2-Chloronaphthalene	79.6	10	µg/L	100.0		79.6		40-140	14.6	20		
2-Chlorophenol	66.1	10	µg/L	100.0		66.1		30-130	4.77	20		
4-Chlorophenylphenylether	91.4	10	µg/L	100.0		91.4		40-140	6.71	20		
Chrysene	91.8	5.0	µg/L	100.0		91.8		40-140	9.07	20		
Dibenz(a,h)anthracene	102	5.0	µg/L	100.0		102		40-140	14.4	20	V-04	
Dibenzofuran	92.4	5.0	µg/L	100.0		92.4		40-140	7.50	20		
Di-n-butylphthalate	92.4	10	µg/L	100.0		92.4		40-140	8.59	20		
3,3-Dichlorobenzidine	49.8	10	µg/L	100.0		49.8		40-140	14.0	20		
2,4-Dichlorophenol	74.5	10	µg/L	100.0		74.5		30-130	5.50	20		
Diethylphthalate	91.0	10	µg/L	100.0		91.0		40-140	8.22	20		
2,4-Dimethylphenol	88.9	10	µg/L	100.0		88.9		30-130	9.56	20		
Dimethylphthalate	93.5	10	µg/L	100.0		93.5		40-140	7.44	50		‡
4,6-Dinitro-2-methylphenol	69.6	20	µg/L	100.0		69.6		30-130	18.5	50		‡
2,4-Dinitrophenol	56.2	10	µg/L	100.0		56.2		30-130	34.2	50	V-04	‡
2,4-Dinitrotoluene	101	10	µg/L	100.0		101		40-140	10.4	20		
2,6-Dinitrotoluene	99.2	10	µg/L	100.0		99.2		40-140	8.07	20		
Di-n-octylphthalate	93.6	10	µg/L	100.0		93.6		40-140	7.87	20	V-04	
Fluoranthene	97.9	5.0	µg/L	100.0		97.9		40-140	9.75	20		
Fluorene	95.0	5.0	µg/L	100.0		95.0		40-140	8.36	20		
Hexachlorobenzene	92.9	10	µg/L	100.0		92.9		40-140	6.23	20		
Hexachlorobutadiene	59.1	10	µg/L	100.0		59.1		40-140	10.1	20		
Hexachlorocyclopentadiene	79.3	10	µg/L	100.0		79.3		30-140	8.34	50		† ‡
Hexachloroethane	49.2	10	µg/L	100.0		49.2		40-140	1.51	50		‡
Indeno(1,2,3-cd)pyrene	109	5.0	µg/L	100.0		109		40-140	16.9	50	V-04	‡
Isophorone	93.7	10	µg/L	100.0		93.7		40-140	6.33	20		
1-Methylnaphthalene	78.8	5.0	µg/L	100.0		78.8		40-140	9.61	20		
2-Methylnaphthalene	75.1	5.0	µg/L	100.0		75.1		40-140	7.42	20		
2-Methylphenol	75.9	10	µg/L	100.0		75.9		30-130	7.86	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 B390727 - SW-846 3510C											
LCS Dup (B390727-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24							
3/4-Methylphenol	74.3	10	µg/L	100.0		74.3	30-130	7.68	20		
Naphthalene	73.3	5.0	µg/L	100.0		73.3	40-140	8.28	20		
2-Nitroaniline	111	10	µg/L	100.0		111	40-140	7.15	20		
3-Nitroaniline	101	10	µg/L	100.0		101	40-140	13.5	20		
4-Nitroaniline	96.7	10	µg/L	100.0		96.7	40-140	10.5	20		
Nitrobenzene	84.1	10	µg/L	100.0		84.1	40-140	6.15	20		
2-Nitrophenol	71.4	10	µg/L	100.0		71.4	30-130	10.1	20		
4-Nitrophenol	42.8	10	µg/L	100.0		42.8	10-130	19.8	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	91.1	10	µg/L	100.0		91.1	40-140	9.28	20		
N-Nitrosodi-n-propylamine	80.5	10	µg/L	100.0		80.5	40-140	5.52	20		
Pentachlorophenol	69.6	10	µg/L	100.0		69.6	30-130	19.5	50		‡
Phenanthrene	94.5	5.0	µg/L	100.0		94.5	40-140	8.43	20		
Phenol	41.1	10	µg/L	100.0		41.1	20-130	4.18	20		†
Pyrene	95.1	5.0	µg/L	100.0		95.1	40-140	5.76	20		
Pyridine	25.1	20	µg/L	100.0		25.1	10-140	35.8	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	99.2	10	µg/L	100.0		99.2	40-140	6.05	20		
2,4,5-Trichlorophenol	76.1	10	µg/L	100.0		76.1	30-130	10.0	20		
2,4,6-Trichlorophenol	69.6	10	µg/L	100.0		69.6	30-130	19.9	50		‡
Surrogate: 2-Fluorophenol	*195*		µg/L	400.0		48.7	15-110				
Surrogate: Phenol-d6	*163*		µg/L	400.0		40.9	15-110				
Surrogate: Nitrobenzene-d5	*170*		µg/L	200.0		85.2	30-130				
Surrogate: 2-Fluorobiphenyl	*166*		µg/L	200.0		83.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*359*		µg/L	400.0		89.6	15-110				
Surrogate: p-Terphenyl-d14	*190*		µg/L	200.0		95.1	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 B390901 - SW-846 3546												
Blank (B390901-BLK1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	ND	0.050	mg/Kg wet									R-05
Surrogate: 1,4-Dioxane-d8	*0.259*		mg/Kg wet	0.4978		52.1		15-110				
LCS (B390901-BS1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.507	0.050	mg/Kg wet	0.4963		102		40-140				R-05
Surrogate: 1,4-Dioxane-d8	*0.298*		mg/Kg wet	0.4963		60.0		15-110				
LCS Dup (B390901-BSD1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.830	0.050	mg/Kg wet	0.4965		**167**	*	40-140	**48.3**	*	30	L-07A
Surrogate: 1,4-Dioxane-d8	*0.210*		mg/Kg wet	0.4965		42.4		15-110				
Batch B392039 - SW-846 3546												
Blank (B392039-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	ND	0.048	mg/Kg wet									
Surrogate: 1,4-Dioxane-d8	*0.174*		mg/Kg wet	0.4794		36.3		15-110				
LCS (B392039-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	0.522	0.048	mg/Kg wet	0.4789		109		40-140				
Surrogate: 1,4-Dioxane-d8	*0.177*		mg/Kg wet	0.4789		37.0		15-110				
LCS Dup (B392039-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	0.532	0.048	mg/Kg wet	0.4794		111		40-140	1.91		30	
Surrogate: 1,4-Dioxane-d8	*0.165*		mg/Kg wet	0.4794		34.5		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 B390329 - Draft Method 1633										
Blank (B390329-BLK1)				Prepared: 10/30/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	ND	0.79	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.79	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.79	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.9	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.9	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*8.74*		µg/kg wet	9.856		88.7	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390329 - Draft Method 1633										
Blank (B390329-BLK1)				Prepared: 10/30/24 Analyzed: 11/01/24						
Surrogate: 13C5-PFPeA	*4.70*		µg/kg wet	4.928		95.4	35-150			
Surrogate: 13C5-PFHxA	*2.34*		µg/kg wet	2.464		94.8	55-150			
Surrogate: 13C4-PFHpA	*2.35*		µg/kg wet	2.464		95.6	55-150			
Surrogate: 13C8-PFOA	*2.36*		µg/kg wet	2.464		95.7	60-140			
Surrogate: 13C9-PFNA	*1.19*		µg/kg wet	1.232		96.8	55-140			
Surrogate: 13C6-PFDA	*1.27*		µg/kg wet	1.232		103	50-140			
Surrogate: 13C7-PFUnA	*1.15*		µg/kg wet	1.232		93.0	30-140			
Surrogate: 13C2-PFDoA	*1.22*		µg/kg wet	1.232		99.2	10-150			
Surrogate: 13C2-PFTeDA	*1.08*		µg/kg wet	1.232		87.4	10-130			
Surrogate: 13C3-PFBS	*2.77*		µg/kg wet	2.464		112	55-150			
Surrogate: 13C3-PFHxS	*2.45*		µg/kg wet	2.464		99.4	55-150			
Surrogate: 13C8-PFOS	*2.46*		µg/kg wet	2.464		100	45-140			
Surrogate: 13C2-4:2FTS	*5.23*		µg/kg wet	4.928		106	60-200			
Surrogate: 13C2-6:2FTS	*4.77*		µg/kg wet	4.928		96.8	60-200			
Surrogate: 13C2-8:2FTS	*4.15*		µg/kg wet	4.928		84.2	50-200			
Surrogate: 13C8-PFOSA	*2.71*		µg/kg wet	2.464		110	30-130			
Surrogate: D3-NMeFOSA	*1.61*		µg/kg wet	2.464		65.5	15-130			
Surrogate: D5-NEtFOSA	*1.38*		µg/kg wet	2.464		56.0	10-130			
Surrogate: D3-NMeFOSAA	*5.42*		µg/kg wet	4.928		110	45-200			
Surrogate: D5-NEtFOSAA	*5.52*		µg/kg wet	4.928		112	10-200			
Surrogate: D7-NMeFOSE	*19.1*		µg/kg wet	24.64		77.4	10-150			
Surrogate: D9-NEtFOSE	*15.5*		µg/kg wet	24.64		63.1	10-150			
Surrogate: 13C3-HFPO-DA	*8.89*		µg/kg wet	9.856		90.2	25-160			
LCS (B390329-BS1)				Prepared: 10/30/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	8.52	0.80	µg/kg wet	9.560		89.1	58-148			
Perfluoropentanoic acid (PFPeA)	4.26	0.40	µg/kg wet	4.780		89.1	54-152			
Perfluorohexanoic acid (PFHxA)	2.22	0.20	µg/kg wet	2.390		92.8	55-152			
Perfluoroheptanoic acid (PFHpA)	2.02	0.20	µg/kg wet	2.390		84.7	54-154			
Perfluorooctanoic acid (PFOA)	2.17	0.20	µg/kg wet	2.390		90.9	52-161			
Perfluorononanoic acid (PFNA)	1.82	0.20	µg/kg wet	2.390		76.1	59-149			
Perfluorodecanoic acid (PFDA)	1.98	0.20	µg/kg wet	2.390		83.0	52-147			
Perfluoroundecanoic acid (PFUnA)	2.17	0.20	µg/kg wet	2.390		90.7	48-159			
Perfluorododecanoic acid (PFDoA)	2.25	0.20	µg/kg wet	2.390		94.1	64-142			
Perfluorotridecanoic acid (PFTrDA)	2.22	0.20	µg/kg wet	2.390		92.9	49-148			
Perfluorotetradecanoic acid (PFTeDA)	2.10	0.20	µg/kg wet	2.390		87.9	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.81	0.20	µg/kg wet	2.120		85.5	62-144			
Perfluoropentanesulfonic acid (PFPeS)	2.13	0.20	µg/kg wet	2.249		94.8	59-151			
Perfluorohexanesulfonic acid (PFHxS)	1.87	0.20	µg/kg wet	2.184		85.5	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	2.06	0.20	µg/kg wet	2.278		90.6	55-152			
Perfluorooctanesulfonic acid (PFOS)	1.86	0.20	µg/kg wet	2.218		83.7	58-149			
Perfluorononanesulfonic acid (PFNS)	1.99	0.20	µg/kg wet	2.299		86.7	52-148			
Perfluorodecanesulfonic acid (PFDS)	2.27	0.20	µg/kg wet	2.306		98.3	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.76	0.20	µg/kg wet	2.318		76.0	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.80	0.80	µg/kg wet	8.962		98.2	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.54	0.80	µg/kg wet	9.082		94.0	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.87	0.80	µg/kg wet	9.177		96.6	63-152			
Perfluorooctanesulfonamide (PFOSA)	2.15	0.20	µg/kg wet	2.390		90.0	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.96	0.20	µg/kg wet	2.390		82.2	63-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390329 - Draft Method 1633										
LCS (B390329-BS1)				Prepared: 10/30/24 Analyzed: 11/01/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.80	0.20	µg/kg wet	2.390		75.5	65-139			
N-MeFOSAA (NMeFOSAA)	2.05	0.20	µg/kg wet	2.390		85.7	58-144			
N-EtFOSAA (NEtFOSAA)	1.86	0.20	µg/kg wet	2.390		78.0	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.0	2.0	µg/kg wet	23.90		79.5	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.3	2.0	µg/kg wet	23.90		80.9	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.25	0.80	µg/kg wet	9.560		96.8	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.70	0.80	µg/kg wet	9.034		96.3	68-146			
9Cl-PF3ONS (F53B Minor)	7.26	0.80	µg/kg wet	8.938		81.2	56-156			
11Cl-PF3OUdS (F53B Major)	6.17	0.80	µg/kg wet	9.034		68.3	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	24.2	2.0	µg/kg wet	23.90		101	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	118	10	µg/kg wet	119.5		99.0	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	121	10	µg/kg wet	119.5		101	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.11	0.40	µg/kg wet	4.254		96.5	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.49	0.40	µg/kg wet	4.780		94.0	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.83	0.40	µg/kg wet	4.780		101	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.94	0.40	µg/kg wet	4.780		103	48-161			
Surrogate: 13C4-PFBA	*8.43*		µg/kg wet	9.958		84.7	10-130			
Surrogate: 13C5-PFPeA	*4.73*		µg/kg wet	4.979		95.0	35-150			
Surrogate: 13C5-PFHxA	*2.34*		µg/kg wet	2.490		94.1	55-150			
Surrogate: 13C4-PFHpA	*2.44*		µg/kg wet	2.490		97.9	55-150			
Surrogate: 13C8-PFOA	*2.27*		µg/kg wet	2.490		91.2	60-140			
Surrogate: 13C9-PFNA	*1.31*		µg/kg wet	1.245		105	55-140			
Surrogate: 13C6-PFDA	*1.33*		µg/kg wet	1.245		107	50-140			
Surrogate: 13C7-PFUnA	*1.19*		µg/kg wet	1.245		95.4	30-140			
Surrogate: 13C2-PFDoA	*1.24*		µg/kg wet	1.245		99.8	10-150			
Surrogate: 13C2-PFTeDA	*1.09*		µg/kg wet	1.245		87.4	10-130			
Surrogate: 13C3-PFBS	*2.74*		µg/kg wet	2.490		110	55-150			
Surrogate: 13C3-PFHxS	*2.43*		µg/kg wet	2.490		97.8	55-150			
Surrogate: 13C8-PFOS	*2.54*		µg/kg wet	2.490		102	45-140			
Surrogate: 13C2-4:2FTS	*5.05*		µg/kg wet	4.979		101	60-200			
Surrogate: 13C2-6:2FTS	*4.77*		µg/kg wet	4.979		95.7	60-200			
Surrogate: 13C2-8:2FTS	*3.96*		µg/kg wet	4.979		79.5	50-200			
Surrogate: 13C8-PFOSA	*2.88*		µg/kg wet	2.490		116	30-130			
Surrogate: D3-NMeFOSA	*2.07*		µg/kg wet	2.490		83.0	15-130			
Surrogate: D5-NEtFOSA	*2.10*		µg/kg wet	2.490		84.2	10-130			
Surrogate: D3-NMeFOSAA	*5.66*		µg/kg wet	4.979		114	45-200			
Surrogate: D5-NEtFOSAA	*6.01*		µg/kg wet	4.979		121	10-200			
Surrogate: D7-NMeFOSE	*21.1*		µg/kg wet	24.90		84.7	10-150			
Surrogate: D9-NEtFOSE	*18.1*		µg/kg wet	24.90		72.5	10-150			
Surrogate: 13C3-HFPO-DA	*9.35*		µg/kg wet	9.958		93.9	25-160			
MRL Check (B390329-MRL1)				Prepared: 10/30/24 Analyzed: 11/01/24						
Perfluorobutanoic acid (PFBA)	0.651	0.78	µg/kg wet	0.7825		83.2	44-157			J
Perfluoropentanoic acid (PFPeA)	0.374	0.39	µg/kg wet	0.3912		95.5	57-148			J

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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 B390329 - Draft Method 1633										
MRL Check (B390329-MRL1)				Prepared: 10/30/24 Analyzed: 11/01/24						
Perfluorohexanoic acid (PFHxA)	0.199	0.20	µg/kg wet	0.1956		102	62-149			
Perfluoroheptanoic acid (PFHpA)	0.189	0.20	µg/kg wet	0.1956		96.5	56-150			J
Perfluorooctanoic acid (PFOA)	0.194	0.20	µg/kg wet	0.1956		99.3	57-161			J
Perfluorononanoic acid (PFNA)	0.150	0.20	µg/kg wet	0.1956		76.5	53-157			J
Perfluorodecanoic acid (PFDA)	0.170	0.20	µg/kg wet	0.1956		86.8	43-158			J
Perfluoroundecanoic acid (PFUnA)	0.188	0.20	µg/kg wet	0.1956		95.9	50-155			J
Perfluorododecanoic acid (PFDoA)	0.196	0.20	µg/kg wet	0.1956		100	60-141			
Perfluorotridecanoic acid (PFTrDA)	0.190	0.20	µg/kg wet	0.1956		97.2	52-140			J
Perfluorotetradecanoic acid (PFTeDA)	0.184	0.20	µg/kg wet	0.1956		94.3	52-156			J
Perfluorobutanesulfonic acid (PFBS)	0.162	0.20	µg/kg wet	0.1735		93.4	63-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.178	0.20	µg/kg wet	0.1841		96.6	58-144			J
Perfluorohexanesulfonic acid (PFHxS)	0.171	0.20	µg/kg wet	0.1788		95.8	44-158			J
Perfluoroheptanesulfonic acid (PFHpS)	0.176	0.20	µg/kg wet	0.1864		94.4	51-150			J
Perfluorooctanesulfonic acid (PFOS)	0.190	0.20	µg/kg wet	0.1815		105	43-162			J
Perfluorononanesulfonic acid (PFNS)	0.174	0.20	µg/kg wet	0.1882		92.7	46-151			J
Perfluorodecanesulfonic acid (PFDS)	0.189	0.20	µg/kg wet	0.1888		100	50-144			J
Perfluorododecanesulfonic acid (PFDoS)	0.154	0.20	µg/kg wet	0.1897		81.3	30-138			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.731	0.78	µg/kg wet	0.7336		99.6	52-158			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.767	0.78	µg/kg wet	0.7433		103	48-158			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.799	0.78	µg/kg wet	0.7512		106	46-165			
Perfluorooctanesulfonamide (PFOSA)	0.177	0.20	µg/kg wet	0.1956		90.6	47-163			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.166	0.20	µg/kg wet	0.1956		84.7	54-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.174	0.20	µg/kg wet	0.1956		89.1	49-156			J
N-MeFOSAA (NMeFOSAA)	0.202	0.20	µg/kg wet	0.1956		103	32-160			
N-EtFOSAA (NEtFOSAA)	0.152	0.20	µg/kg wet	0.1956		77.6	51-154			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.61	2.0	µg/kg wet	1.956		82.3	56-151			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.64	2.0	µg/kg wet	1.956		83.7	60-147			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.786	0.78	µg/kg wet	0.7825		100	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.689	0.78	µg/kg wet	0.7394		93.1	61-148			J
9Cl-PF3ONS (F53B Minor)	0.609	0.78	µg/kg wet	0.7316		83.2	44-167			J
11Cl-PF3OUdS (F53B Major)	0.519	0.78	µg/kg wet	0.7394		70.2	36-158			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.77	2.0	µg/kg wet	1.956		90.5	32-161			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	8.60	9.8	µg/kg wet	9.781		87.9	39-156			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	8.52	9.8	µg/kg wet	9.781		87.1	36-149			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.315	0.39	µg/kg wet	0.3482		90.4	56-144			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.356	0.39	µg/kg wet	0.3912		91.0	48-150			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.387	0.39	µg/kg wet	0.3912		98.9	49-154			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.368	0.39	µg/kg wet	0.3912		94.1	47-160			J
Surrogate: 13C4-PFBA	*8.19*		µg/kg wet	9.781		83.8	10-130			
Surrogate: 13C5-PFPeA	*4.36*		µg/kg wet	4.890		89.1	35-150			
Surrogate: 13C5-PFHxA	*2.18*		µg/kg wet	2.445		89.0	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390329 - Draft Method 1633										
MRL Check (B390329-MRL1)				Prepared: 10/30/24 Analyzed: 11/01/24						
Surrogate: 13C4-PFHpA	*2.21*		µg/kg wet	2.445		90.5	55-150			
Surrogate: 13C8-PFOA	*2.20*		µg/kg wet	2.445		90.0	60-140			
Surrogate: 13C9-PFNA	*1.23*		µg/kg wet	1.223		100	55-140			
Surrogate: 13C6-PFDA	*1.25*		µg/kg wet	1.223		102	50-140			
Surrogate: 13C7-PFUnA	*1.04*		µg/kg wet	1.223		85.2	30-140			
Surrogate: 13C2-PFDoA	*1.13*		µg/kg wet	1.223		92.2	10-150			
Surrogate: 13C2-PFTeDA	*0.976*		µg/kg wet	1.223		79.9	10-130			
Surrogate: 13C3-PFBS	*2.55*		µg/kg wet	2.445		104	55-150			
Surrogate: 13C3-PFHxS	*2.39*		µg/kg wet	2.445		97.7	55-150			
Surrogate: 13C8-PFOS	*2.45*		µg/kg wet	2.445		100	45-140			
Surrogate: 13C2-4:2FTS	*5.02*		µg/kg wet	4.890		103	60-200			
Surrogate: 13C2-6:2FTS	*4.71*		µg/kg wet	4.890		96.3	60-200			
Surrogate: 13C2-8:2FTS	*3.88*		µg/kg wet	4.890		79.4	50-200			
Surrogate: 13C8-PFOSA	*2.61*		µg/kg wet	2.445		107	30-130			
Surrogate: D3-NMeFOSA	*1.86*		µg/kg wet	2.445		76.1	15-130			
Surrogate: D5-NEtFOSA	*1.72*		µg/kg wet	2.445		70.2	10-130			
Surrogate: D3-NMeFOSAA	*5.16*		µg/kg wet	4.890		106	45-200			
Surrogate: D5-NEtFOSAA	*5.51*		µg/kg wet	4.890		113	10-200			
Surrogate: D7-NMeFOSE	*18.5*		µg/kg wet	24.45		75.5	10-150			
Surrogate: D9-NEtFOSE	*14.7*		µg/kg wet	24.45		60.1	10-150			
Surrogate: 13C3-HFPO-DA	*9.10*		µg/kg wet	9.781		93.1	25-160			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
Blank (B391053-BLK1)				Prepared: 10/31/24 Analyzed: 11/08/24						
alpha-Chlordane	ND	0.0046	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0046	mg/Kg wet							
gamma-Chlordane	ND	0.0046	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0046	mg/Kg wet							
Aldrin	ND	0.0046	mg/Kg wet							
Aldrin [2C]	ND	0.0046	mg/Kg wet							
alpha-BHC	ND	0.0046	mg/Kg wet							
alpha-BHC [2C]	ND	0.0046	mg/Kg wet							
beta-BHC	ND	0.0046	mg/Kg wet							
beta-BHC [2C]	ND	0.0046	mg/Kg wet							
delta-BHC	ND	0.0046	mg/Kg wet							
delta-BHC [2C]	ND	0.0046	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0018	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0018	mg/Kg wet							
4,4'-DDD	ND	0.0037	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDE	ND	0.0037	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0037	mg/Kg wet							
4,4'-DDT	ND	0.0037	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0037	mg/Kg wet							
Dieldrin	ND	0.0037	mg/Kg wet							
Dieldrin [2C]	ND	0.0037	mg/Kg wet							
Endosulfan I	ND	0.0046	mg/Kg wet							
Endosulfan I [2C]	ND	0.0046	mg/Kg wet							
Endosulfan II	ND	0.0073	mg/Kg wet							
Endosulfan II [2C]	ND	0.0073	mg/Kg wet							
Endosulfan Sulfate	ND	0.0073	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0073	mg/Kg wet							
Endrin	ND	0.0073	mg/Kg wet							
Endrin [2C]	ND	0.0073	mg/Kg wet							
Endrin Aldehyde	ND	0.0073	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0073	mg/Kg wet							
Endrin Ketone	ND	0.0073	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0073	mg/Kg wet							
Heptachlor	ND	0.0046	mg/Kg wet							
Heptachlor [2C]	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide	ND	0.0046	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0046	mg/Kg wet							
Methoxychlor	ND	0.046	mg/Kg wet							
Methoxychlor [2C]	ND	0.046	mg/Kg wet							
Toxaphene	ND	0.091	mg/Kg wet							
Toxaphene [2C]	ND	0.091	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.134*		mg/Kg wet	0.1826		73.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.1826		72.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.115*		mg/Kg wet	0.1826		62.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.118*		mg/Kg wet	0.1826		64.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
LCS (B391053-BS1)				Prepared: 10/31/24 Analyzed: 11/08/24						
alpha-Chlordane	0.073	0.0046	mg/Kg wet	0.09107		80.0	40-140			
alpha-Chlordane [2C]	0.078	0.0046	mg/Kg wet	0.09107		85.2	40-140			
gamma-Chlordane	0.072	0.0046	mg/Kg wet	0.09107		78.8	40-140			
gamma-Chlordane [2C]	0.077	0.0046	mg/Kg wet	0.09107		84.2	40-140			
Aldrin	0.072	0.0046	mg/Kg wet	0.09107		79.2	40-140			
Aldrin [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.4	40-140			
alpha-BHC	0.075	0.0046	mg/Kg wet	0.09107		82.1	40-140			
alpha-BHC [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.9	40-140			
beta-BHC	0.069	0.0046	mg/Kg wet	0.09107		75.5	40-140			
beta-BHC [2C]	0.072	0.0046	mg/Kg wet	0.09107		79.4	40-140			
delta-BHC	0.065	0.0046	mg/Kg wet	0.09107		71.0	40-140			
delta-BHC [2C]	0.066	0.0046	mg/Kg wet	0.09107		72.3	40-140			
gamma-BHC (Lindane)	0.070	0.0018	mg/Kg wet	0.09107		76.9	40-140			
gamma-BHC (Lindane) [2C]	0.073	0.0018	mg/Kg wet	0.09107		80.4	40-140			
4,4'-DDD	0.082	0.0036	mg/Kg wet	0.09107		90.5	40-140			
4,4'-DDD [2C]	0.084	0.0036	mg/Kg wet	0.09107		92.3	40-140			
4,4'-DDE	0.080	0.0036	mg/Kg wet	0.09107		87.5	40-140			
4,4'-DDE [2C]	0.082	0.0036	mg/Kg wet	0.09107		90.0	40-140			
4,4'-DDT	0.076	0.0036	mg/Kg wet	0.09107		82.9	40-140			
4,4'-DDT [2C]	0.074	0.0036	mg/Kg wet	0.09107		81.4	40-140			
Dieldrin	0.076	0.0036	mg/Kg wet	0.09107		83.4	40-140			
Dieldrin [2C]	0.080	0.0036	mg/Kg wet	0.09107		87.9	40-140			
Endosulfan I	0.073	0.0046	mg/Kg wet	0.09107		79.8	40-140			
Endosulfan I [2C]	0.078	0.0046	mg/Kg wet	0.09107		85.3	40-140			
Endosulfan II	0.073	0.0073	mg/Kg wet	0.09107		80.1	40-140			
Endosulfan II [2C]	0.079	0.0073	mg/Kg wet	0.09107		87.0	40-140			
Endosulfan Sulfate	0.065	0.0073	mg/Kg wet	0.09107		71.7	40-140			
Endosulfan Sulfate [2C]	0.073	0.0073	mg/Kg wet	0.09107		80.0	40-140			
Endrin	0.078	0.0073	mg/Kg wet	0.09107		85.5	40-140			
Endrin [2C]	0.076	0.0073	mg/Kg wet	0.09107		83.8	40-140			
Endrin Aldehyde	0.055	0.0073	mg/Kg wet	0.09107		60.8	40-140			
Endrin Aldehyde [2C]	0.062	0.0073	mg/Kg wet	0.09107		67.6	40-140			
Endrin Ketone	0.075	0.0073	mg/Kg wet	0.09107		82.3	40-140			
Endrin Ketone [2C]	0.072	0.0073	mg/Kg wet	0.09107		79.3	40-140			
Heptachlor	0.074	0.0046	mg/Kg wet	0.09107		80.9	40-140			
Heptachlor [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.7	40-140			
Heptachlor Epoxide	0.073	0.0046	mg/Kg wet	0.09107		80.5	40-140			
Heptachlor Epoxide [2C]	0.076	0.0046	mg/Kg wet	0.09107		83.5	40-140			
Methoxychlor	0.073	0.046	mg/Kg wet	0.09107		79.7	40-140			
Methoxychlor [2C]	0.077	0.046	mg/Kg wet	0.09107		84.1	40-140			
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.1821		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.1821		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.140*		mg/Kg wet	0.1821		76.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg wet	0.1821		78.0	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391053 - SW-846 3546										
LCS Dup (B391053-BSD1)				Prepared: 10/31/24 Analyzed: 11/08/24						
alpha-Chlordane	0.065	0.0046	mg/Kg wet	0.09141		70.7	40-140	11.9	30	
alpha-Chlordane [2C]	0.069	0.0046	mg/Kg wet	0.09141		75.2	40-140	12.1	30	
gamma-Chlordane	0.064	0.0046	mg/Kg wet	0.09141		69.9	40-140	11.6	30	
gamma-Chlordane [2C]	0.068	0.0046	mg/Kg wet	0.09141		74.4	40-140	12.0	30	
Aldrin	0.063	0.0046	mg/Kg wet	0.09141		69.0	40-140	13.3	30	
Aldrin [2C]	0.066	0.0046	mg/Kg wet	0.09141		72.5	40-140	13.6	30	
alpha-BHC	0.065	0.0046	mg/Kg wet	0.09141		70.8	40-140	14.3	30	
alpha-BHC [2C]	0.066	0.0046	mg/Kg wet	0.09141		72.6	40-140	14.0	30	
beta-BHC	0.060	0.0046	mg/Kg wet	0.09141		66.1	40-140	12.9	30	
beta-BHC [2C]	0.064	0.0046	mg/Kg wet	0.09141		69.9	40-140	12.4	30	
delta-BHC	0.058	0.0046	mg/Kg wet	0.09141		63.3	40-140	11.1	30	
delta-BHC [2C]	0.059	0.0046	mg/Kg wet	0.09141		64.5	40-140	11.1	30	
gamma-BHC (Lindane)	0.061	0.0018	mg/Kg wet	0.09141		67.0	40-140	13.4	30	
gamma-BHC (Lindane) [2C]	0.064	0.0018	mg/Kg wet	0.09141		69.9	40-140	13.6	30	
4,4'-DDD	0.074	0.0037	mg/Kg wet	0.09141		80.7	40-140	11.1	30	
4,4'-DDD [2C]	0.075	0.0037	mg/Kg wet	0.09141		82.2	40-140	11.3	30	
4,4'-DDE	0.070	0.0037	mg/Kg wet	0.09141		76.7	40-140	12.7	30	
4,4'-DDE [2C]	0.072	0.0037	mg/Kg wet	0.09141		79.2	40-140	12.4	30	
4,4'-DDT	0.063	0.0037	mg/Kg wet	0.09141		69.3	40-140	17.6	30	
4,4'-DDT [2C]	0.063	0.0037	mg/Kg wet	0.09141		68.8	40-140	16.4	30	
Dieldrin	0.068	0.0037	mg/Kg wet	0.09141		74.0	40-140	11.5	30	
Dieldrin [2C]	0.071	0.0037	mg/Kg wet	0.09141		77.2	40-140	12.6	30	
Endosulfan I	0.065	0.0046	mg/Kg wet	0.09141		70.6	40-140	11.9	30	
Endosulfan I [2C]	0.069	0.0046	mg/Kg wet	0.09141		75.0	40-140	12.6	30	
Endosulfan II	0.065	0.0073	mg/Kg wet	0.09141		71.3	40-140	11.2	30	
Endosulfan II [2C]	0.071	0.0073	mg/Kg wet	0.09141		77.1	40-140	11.7	30	
Endosulfan Sulfate	0.058	0.0073	mg/Kg wet	0.09141		63.0	40-140	12.5	30	
Endosulfan Sulfate [2C]	0.064	0.0073	mg/Kg wet	0.09141		70.2	40-140	12.8	30	
Endrin	0.066	0.0073	mg/Kg wet	0.09141		72.7	40-140	15.8	30	
Endrin [2C]	0.066	0.0073	mg/Kg wet	0.09141		71.9	40-140	14.9	30	
Endrin Aldehyde	0.049	0.0073	mg/Kg wet	0.09141		53.8	40-140	11.8	30	
Endrin Aldehyde [2C]	0.055	0.0073	mg/Kg wet	0.09141		60.4	40-140	10.8	30	
Endrin Ketone	0.067	0.0073	mg/Kg wet	0.09141		73.5	40-140	11.0	30	
Endrin Ketone [2C]	0.064	0.0073	mg/Kg wet	0.09141		70.5	40-140	11.4	30	
Heptachlor	0.064	0.0046	mg/Kg wet	0.09141		70.0	40-140	14.1	30	
Heptachlor [2C]	0.066	0.0046	mg/Kg wet	0.09141		72.5	40-140	14.0	30	
Heptachlor Epoxide	0.065	0.0046	mg/Kg wet	0.09141		71.1	40-140	12.0	30	
Heptachlor Epoxide [2C]	0.067	0.0046	mg/Kg wet	0.09141		73.5	40-140	12.4	30	
Methoxychlor	0.059	0.046	mg/Kg wet	0.09141		64.0	40-140	21.4	30	
Methoxychlor [2C]	0.065	0.046	mg/Kg wet	0.09141		70.6	40-140	17.2	30	
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg wet	0.1828		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.150*		mg/Kg wet	0.1828		82.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.120*		mg/Kg wet	0.1828		65.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.121*		mg/Kg wet	0.1828		66.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390367 - SW-846 3546										
Blank (B390367-BLK1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.1949		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.1949		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.1949		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.1949		87.2	30-150			
LCS (B390367-BS1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Aroclor-1016	0.16	0.019	mg/Kg wet	0.1946		80.3	40-140			
Aroclor-1016 [2C]	0.15	0.019	mg/Kg wet	0.1946		75.5	40-140			
Aroclor-1260	0.18	0.019	mg/Kg wet	0.1946		90.3	40-140			
Aroclor-1260 [2C]	0.17	0.019	mg/Kg wet	0.1946		85.1	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.1946		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.1946		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.1946		84.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.1946		85.4	30-150			
LCS Dup (B390367-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Aroclor-1016	0.16	0.019	mg/Kg wet	0.1947		81.4	40-140	1.33	30	
Aroclor-1016 [2C]	0.15	0.019	mg/Kg wet	0.1947		76.8	40-140	1.76	30	
Aroclor-1260	0.17	0.019	mg/Kg wet	0.1947		89.4	40-140	1.01	30	
Aroclor-1260 [2C]	0.16	0.019	mg/Kg wet	0.1947		84.5	40-140	0.640	30	
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.1947		87.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.1947		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.1947		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.1947		84.5	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391511 - SW-846 3050B										
Blank (B391511-BLK1)				Prepared & Analyzed: 11/06/24						
Aluminum	ND	17	mg/Kg wet							
Antimony	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Calcium	ND	17	mg/Kg wet							
Chromium	ND	0.67	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Iron	ND	17	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Magnesium	ND	17	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.67	mg/Kg wet							
Potassium	ND	170	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Sodium	ND	170	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
Blank (B391511-BLK2)				Prepared: 11/06/24 Analyzed: 11/07/24						
Arsenic	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
LCS (B391511-BS1)				Prepared & Analyzed: 11/06/24						
Aluminum	4380	48	mg/Kg wet	5940		73.7	46.1-153.9			
Antimony	27.9	4.8	mg/Kg wet	121.0		23.1	2.1-200.8			
Barium	281	4.8	mg/Kg wet	295.0		95.2	81.7-118.3			
Beryllium	156	0.48	mg/Kg wet	160.0		97.5	82.5-117.5			
Cadmium	73.7	0.97	mg/Kg wet	84.30		87.5	82.2-117.8			
Calcium	4930	48	mg/Kg wet	5270		93.5	82.5-117.5			
Chromium	210	1.9	mg/Kg wet	213.0		98.5	81.2-119.2			
Cobalt	133	4.8	mg/Kg wet	137.0		97.1	83.2-117.5			
Copper	201	3.9	mg/Kg wet	195.0		103	83.1-116.9			
Iron	5050	48	mg/Kg wet	6650		75.9	58.6-141.5			
Lead	179	1.5	mg/Kg wet	194.0		92.4	82-118.6			
Magnesium	1560	48	mg/Kg wet	1860		83.9	75.3-124.2			
Manganese	264	0.97	mg/Kg wet	264.0		99.9	80.7-118.9			
Nickel	295	1.9	mg/Kg wet	298.0		98.9	82.2-117.8			
Potassium	1870	480	mg/Kg wet	2010		93.3	70.6-129.4			
Selenium	244	9.7	mg/Kg wet	272.0		89.9	80.1-119.5			
Sodium	389	480	mg/Kg wet	406.0		95.8	74.9-124.9			J
Vanadium	169	1.9	mg/Kg wet	169.0		99.8	78.1-122.5			
Zinc	222	1.9	mg/Kg wet	236.0		94.0	80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391511 - SW-846 3050B										
LCS (B391511-BS2)				Prepared: 11/06/24 Analyzed: 11/07/24						
Arsenic	212	9.7	mg/Kg wet	242.0		87.8	81.8-118.6			
Silver	65.4	0.97	mg/Kg wet	76.70		85.2	79.5-120.5			
Thallium	98.7	4.8	mg/Kg wet	108.0		91.4	80-119.4			
LCS Dup (B391511-BSD1)				Prepared & Analyzed: 11/06/24						
Aluminum	4420	48	mg/Kg wet	5940		74.3	46.1-153.9	0.889	30	
Antimony	29.4	4.8	mg/Kg wet	121.0		24.3	2.1-200.8	5.23	30	
Barium	286	4.8	mg/Kg wet	295.0		96.9	81.7-118.3	1.75	20	
Beryllium	156	0.48	mg/Kg wet	160.0		97.4	82.5-117.5	0.162	30	
Cadmium	73.6	0.95	mg/Kg wet	84.30		87.3	82.2-117.8	0.154	20	
Calcium	4900	48	mg/Kg wet	5270		92.9	82.5-117.5	0.574	30	
Chromium	206	1.9	mg/Kg wet	213.0		96.8	81.2-119.2	1.74	30	
Cobalt	131	4.8	mg/Kg wet	137.0		95.9	83.2-117.5	1.21	20	
Copper	198	3.8	mg/Kg wet	195.0		101	83.1-116.9	1.63	30	
Iron	5000	48	mg/Kg wet	6650		75.2	58.6-141.5	1.02	30	
Lead	181	1.4	mg/Kg wet	194.0		93.1	82-118.6	0.690	30	
Magnesium	1560	48	mg/Kg wet	1860		84.1	75.3-124.2	0.295	30	
Manganese	268	0.95	mg/Kg wet	264.0		102	80.7-118.9	1.67	30	
Nickel	288	1.9	mg/Kg wet	298.0		96.6	82.2-117.8	2.43	30	
Potassium	1860	480	mg/Kg wet	2010		92.6	70.6-129.4	0.745	30	
Selenium	243	9.5	mg/Kg wet	272.0		89.4	80.1-119.5	0.498	30	
Sodium	381	480	mg/Kg wet	406.0		93.9	74.9-124.9	1.96	30	J
Vanadium	167	1.9	mg/Kg wet	169.0		98.5	78.1-122.5	1.30	30	
Zinc	218	1.9	mg/Kg wet	236.0		92.5	80.1-120.3	1.64	30	
LCS Dup (B391511-BSD2)				Prepared: 11/06/24 Analyzed: 11/07/24						
Arsenic	215	9.5	mg/Kg wet	242.0		88.8	81.8-118.6	1.12	30	
Silver	64.5	0.95	mg/Kg wet	76.70		84.0	79.5-120.5	1.39	30	
Thallium	100	4.8	mg/Kg wet	108.0		92.7	80-119.4	1.43	30	
Dilution Check (B391511-SRL1)		**Source: 24J2754-02**		Prepared & Analyzed: 11/06/24						
Aluminum	13800	87	mg/Kg dry		13000			5.66	20	
Antimony	ND	8.7	mg/Kg dry		ND				20	
Beryllium	0.824	0.87	mg/Kg dry		0.718			13.8	20	J
Calcium	2430	87	mg/Kg dry		2220			9.08	20	
Cobalt	14.3	8.7	mg/Kg dry		12.6			12.6	20	
Copper	68.0	6.9	mg/Kg dry		65.6			3.53	20	
Magnesium	6240	87	mg/Kg dry		5680			9.31	20	
Manganese	783	1.7	mg/Kg dry		705			10.5	20	
Potassium	1440	870	mg/Kg dry		1340			6.90	20	
Sodium	ND	870	mg/Kg dry		ND				20	
Vanadium	26.4	3.5	mg/Kg dry		25.7			2.80	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B392251 - SW-846 7471												
Blank (B392251-BLK1)				Prepared: 11/14/24 Analyzed: 11/15/24								
Mercury	ND	0.025	mg/Kg wet									
LCS (B392251-BS1)				Prepared: 11/14/24 Analyzed: 11/15/24								
Mercury	24.5	1.8	mg/Kg wet	22.80		108		70.6-129.4				
LCS Dup (B392251-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24								
Mercury	22.3	1.9	mg/Kg wet	22.80		97.9		70.6-129.4	9.54		20	
Matrix Spike (B392251-MS1)	**Source: 24J3350-04**			Prepared: 11/14/24 Analyzed: 11/15/24								
Mercury	0.357	0.025	mg/Kg dry	0.3366	0.0120	102		80-120				MS-23
Matrix Spike Dup (B392251-MSD1)	**Source: 24J3350-04**			Prepared: 11/14/24 Analyzed: 11/15/24								
Mercury	0.218	0.025	mg/Kg dry	0.3355	0.0120	**61.4**	*	80-120	**48.3**	*	20	MS-23

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392420 - SW-846 9010C										
Blank (B392420-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B392420-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	130	4.9	mg/Kg wet	85.17		151	30.6-170			
LCS Dup (B392420-BSD1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	120	5.0	mg/Kg wet	85.42		140	30.6-170	7.33	30	

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BREAKDOWN REPORT

Lab Sample ID: **S113851-PEM1** **Analyzed:** **11/08/2024**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.50
Endrin [1]	2.90

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.05
Endrin [2]	3.05

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B390367-BS1

Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD3

Instrument ID (2): ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.15	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B390367-BSD1 Date(s) Analyzed: 10/28/2024 10/28/2024

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.15	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391053-BS1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.401	5.372	5.432	0.082	
	2	5.353	5.324	5.384	0.084	2.4
4,4'-DDE	1	4.914	4.885	4.945	0.080	
	2	4.888	4.858	4.918	0.082	2.5
4,4'-DDT	1	5.631	5.601	5.661	0.076	
	2	5.608	5.578	5.638	0.074	2.7
Aldrin	1	4.150	4.120	4.180	0.072	
	2	4.022	3.992	4.052	0.076	5.4
alpha-BHC	1	3.267	3.237	3.297	0.075	
	2	3.154	3.123	3.183	0.076	1.3
alpha-Chlordane	1	4.851	4.821	4.881	0.073	
	2	4.743	4.713	4.773	0.078	6.6
beta-BHC	1	3.591	3.561	3.621	0.069	
	2	3.497	3.466	3.526	0.072	4.3
delta-BHC	1	3.733	3.703	3.763	0.065	
	2	3.723	3.693	3.753	0.066	1.5
Dieldrin	1	5.157	5.127	5.187	0.076	
	2	5.004	4.974	5.034	0.080	5.1
Endosulfan I	1	4.962	4.931	4.991	0.073	
	2	4.784	4.754	4.814	0.078	6.6
Endosulfan II	1	5.529	5.499	5.559	0.073	
	2	5.419	5.389	5.449	0.079	7.9
Endosulfan Sulfate	1	6.198	6.169	6.229	0.065	
	2	5.919	5.890	5.950	0.073	11.6
Endrin	1	5.347	5.317	5.377	0.078	
	2	5.246	5.216	5.276	0.076	2.6
Endrin Aldehyde	1	5.873	5.843	5.903	0.055	
	2	5.695	5.666	5.726	0.062	12.0
Endrin Ketone	1	6.388	6.358	6.418	0.075	
	2	6.293	6.263	6.323	0.072	4.1
gamma-BHC (Lindane)	1	3.523	3.492	3.552	0.070	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391053-BS1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.429	3.399	3.459	0.073	4.2
gamma-Chlordane	1	4.742	4.712	4.772	0.072	
	2	4.626	4.596	4.656	0.077	6.7
Heptachlor	1	3.907	3.876	3.936	0.074	
	2	3.771	3.741	3.801	0.076	2.7
Heptachlor Epoxide	1	4.641	4.612	4.672	0.073	
	2	4.474	4.445	4.505	0.076	4.0
Methoxychlor	1	6.019	5.990	6.050	0.073	
	2	6.146	6.116	6.176	0.077	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391053-BSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.401	5.372	5.432	0.074	
	2	5.353	5.324	5.384	0.075	1.3
4,4'-DDE	1	4.915	4.885	4.945	0.070	
	2	4.887	4.858	4.918	0.072	2.8
4,4'-DDT	1	5.632	5.601	5.661	0.063	
	2	5.608	5.578	5.638	0.063	0.0
Aldrin	1	4.150	4.120	4.180	0.063	
	2	4.022	3.992	4.052	0.066	4.7
alpha-BHC	1	3.267	3.237	3.297	0.065	
	2	3.153	3.123	3.183	0.066	1.5
alpha-Chlordane	1	4.851	4.821	4.881	0.065	
	2	4.743	4.713	4.773	0.069	6.0
beta-BHC	1	3.591	3.561	3.621	0.060	
	2	3.496	3.466	3.526	0.064	4.8
delta-BHC	1	3.734	3.703	3.763	0.058	
	2	3.723	3.693	3.753	0.059	1.7
Dieldrin	1	5.157	5.127	5.187	0.068	
	2	5.004	4.974	5.034	0.071	4.3
Endosulfan I	1	4.961	4.931	4.991	0.065	
	2	4.784	4.754	4.814	0.069	6.0
Endosulfan II	1	5.529	5.499	5.559	0.065	
	2	5.419	5.389	5.449	0.071	8.8
Endosulfan Sulfate	1	6.198	6.169	6.229	0.058	
	2	5.919	5.890	5.950	0.064	9.8
Endrin	1	5.347	5.317	5.377	0.066	
	2	5.246	5.216	5.276	0.066	0.0
Endrin Aldehyde	1	5.873	5.843	5.903	0.049	
	2	5.694	5.666	5.726	0.055	11.5
Endrin Ketone	1	6.389	6.358	6.418	0.067	
	2	6.293	6.263	6.323	0.064	4.6
gamma-BHC (Lindane)	1	3.522	3.492	3.552	0.061	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391053-BSD1 Date(s) Analyzed: 11/08/2024 11/08/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.428	3.399	3.459	0.064	4.8
gamma-Chlordane	1	4.742	4.712	4.772	0.064	
	2	4.626	4.596	4.656	0.068	6.1
Heptachlor	1	3.907	3.876	3.936	0.064	
	2	3.771	3.741	3.801	0.066	3.1
Heptachlor Epoxide	1	4.641	4.612	4.672	0.065	
	2	4.475	4.445	4.505	0.067	3.0
Methoxychlor	1	6.019	5.990	6.050	0.059	
	2	6.146	6.116	6.176	0.065	9.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
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.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
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 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA

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Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY

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SW-846 8260D in Water	
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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
Diisopropyl Ether (DIPE)	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

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SW-846 8260D in Water	
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
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 Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA

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

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SW-846 8270E in Water	
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)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(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	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(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	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-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	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
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	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-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA

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SW-846 8270E in Water	
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-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
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	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-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-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
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	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
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC

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Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-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
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	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
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

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

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

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

24J3350

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address:	201 Fuller Rd, Suite 201, Albany, NY 12203
Consultant Phone:	518-250-7334
Callout Project Name:	Former Commander Oil Terminal (MH-5)
Project Location:	Nassau
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Stephen Imbaquingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYS DEC
Sampled By:	Maeve Tucker

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bagnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/~~Time~~	~~Ending~~ Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 537 ID | PFAS 1633
1	DPT-3(10-15)102224	10/22	0900	✓		S	U	X	X				
2	DPT-3(9.5-11.5)GW102224	10/22	1130	X(M1)	✓	GW	U	X	X				
3	DPT-3(20-22)GW102224	10/22	1120	X(M1)	✓	GW	U	X	X				
4	MW-2(SS)102224	10/22	1130	✓		S	U	X	X	X	X	X	X
5	MW-2(5-5.5)102224	10/22	1330	✓		S	U	X					
6	MW-2(28.5-29)102224	10/22	1335	✓		S	U	X					
7	Trip Blank102224	—	—					X					

| | | | | |

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

Log In Back-Sheet

Client Arcadis

Project Former Commander

MCP/RCP Required nel

Deliverable Package Requirement nel

Location NY

PWSID# (When Applicable) nel

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐ _____

Received By / Date / Time RL 10/23/24 710

Back-Sheet By / Date / Time GR 10/23/24 1107

Temperature Method gun # 6

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

Temp < 6° C Actual Temperature 1.2

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

Notes regarding Samples/COC outside of SOP:

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

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

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

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

Raymond McCarthy

From: Imbaquingo, Steeven A (DEC) <Steeven.Imbaquingo@dec.ny.gov>
Sent: Wednesday, November 13, 2024 11:32 AM
To: Raymond McCarthy
Subject: RE: Voice Mail (28 seconds)

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning,

Thank you for reaching back.
The work orders that we are looking to add more analysis, if there's any leftover volume, are:

- 24J3715:
  - subsurface soil analysis of **cyanide** for DPT-1(5-10)102324 and DPT-2(5-10)02324.
  - Groundwater analysis of **VOCs** and **SVOCs** for DPT-1(5-10)GW102324
- 24J3305:
  - subsurface soil analysis of **cyanide** for MW-1(5-6)102124 and MW-1(20-22.5)102124
- 24J3350:
  - surface soil analysis of **cyanide** for MW-2(SS)102224

Please let me know about this request. Thank you.

Sincerely,
Steeven Imbaquingo
he/him/his
Project Manager, Remedial Bureau A, Section B
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7015
Phone: 518-402-9739
www.dec.ny.gov | | |

From: Raymond McCarthy <Raymond.McCarthy@pacelabs.com>
Sent: Wednesday, November 13, 2024 11:18 AM
To: Imbaquingo, Steeven A (DEC) <Steeven.Imbaquingo@dec.ny.gov>
Subject: RE: Voice Mail (28 seconds)

ANALYTICAL REPORT

Lab Number:	L2461868
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24J3350
Project Number:	24J3350
Report Date:	11/06/24

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

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

Project Name: 24J3350
Project Number: 24J3350

Lab Number: L2461868
Report Date: 11/06/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2461868-01	MW-2 (SS) 102224	SOIL	Not Specified	10/22/24 11:30	10/23/24

Project Name:	24J3350	**Lab Number:**	L2461868
Project Number:	24J3350	**Report Date:**	11/06/24

Case Narrative

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

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

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

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

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

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

Project Name: 24J3350 **Lab Number:** L2461868
Project Number: 24J3350 **Report Date:** 11/06/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/06/24

ORGANICS

PESTICIDES

Project Name: 24J3350 **Lab Number:** L2461868

Project Number: 24J3350 **Report Date:** 11/06/24

SAMPLE RESULTS

Lab ID: L2461868-01
Client ID: MW-2 (SS) 102224
Sample Location: Not Specified

Date Collected: 10/22/24 11:30
Date Received: 10/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/27/24 11:01
Analyst: EJL
Percent Solids: 97%
Methylation Date: 10/26/24 14:43

Extraction Method: EPA 8151A
Extraction Date: 10/25/24 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3390	1070	1	A
MCPA	ND		ug/kg	3390	960.	1	A
Dalapon	ND		ug/kg	33.9	11.1	1	A
Dicamba	ND		ug/kg	33.9	5.70	1	A
Dichloroprop	ND		ug/kg	33.9	9.74	1	A
2,4-D	ND		ug/kg	170	10.7	1	A
2,4-DB	ND		ug/kg	170	8.72	1	A
2,4,5-T	ND		ug/kg	170	5.26	1	A
2,4,5-TP (Silvex)	ND		ug/kg	170	4.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	74		30-150	B

Project Name: 24J3350 **Lab Number:** L2461868

Project Number: 24J3350 **Report Date:** 11/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/27/24 00:11
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 10/25/24 14:00

Methylation Date: 10/26/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1989150-1						
MCPP	ND		ug/kg	3280	1030	A
MCPA	ND		ug/kg	3280	929.	A
Dalapon	ND		ug/kg	32.8	10.7	A
Dicamba	ND		ug/kg	32.8	5.52	A
Dichloroprop	ND		ug/kg	32.8	9.42	A
2,4-D	ND		ug/kg	164	10.3	A
2,4-DB	ND		ug/kg	164	8.44	A
2,4,5-T	ND		ug/kg	164	5.09	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.37	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	78		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24J3350
Project Number: 24J3350

Lab Number: L2461868
Report Date: 11/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1989150-2 WG1989150-3									
MCPP	82		86		30-150	5		30	A
MCPA	85		89		30-150	5		30	A
Dalapon	64		59		30-150	8		30	A
Dicamba	82		79		30-150	4		30	A
Dichloroprop	87		89		30-150	2		30	A
2,4-D	78		77		30-150	1		30	A
2,4-DB	81		80		30-150	1		30	A
2,4,5-T	84		86		30-150	2		30	A
2,4,5-TP (Silvex)	85		83		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	74		71		30-150	A
DCAA	89		82		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24J3350
Project Number: 24J3350

Lab Number: L2461868
Report Date: 11/06/24

SAMPLE RESULTS

Lab ID: L2461868-01
Client ID: MW-2 (SS) 102224
Sample Location: Not Specified

Date Collected: 10/22/24 11:30
Date Received: 10/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.6		%	0.100	NA	1	-	11/04/24 18:55	121,2540G	SJB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24J3350
Project Number: 24J3350

Lab Number: L2461868
Report Date: 11/06/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1992963-1 QC Sample: L2460803-01 Client ID: DUP Sample						
Solids, Total	62.8	66.5	%	6		20

Project Name: 24J3350
Project Number: 24J3350

Lab Number: L2461868
Report Date: 11/06/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2461868-01A	Glass 120ml/4oz unpreserved	C	NA		4.9	Y	Absent		TS(7),HERB-8151(14)

*Values in parentheses indicate holding time in days

Project Name:	24J3350	**Lab Number:**	L2461868
Project Number:	24J3350	**Report Date:**	11/06/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J3350	**Lab Number:**	L2461868
Project Number:	24J3350	**Report Date:**	11/06/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J3350	**Lab Number:**	L2461868
Project Number:	24J3350	**Report Date:**	11/06/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24J3350 **Lab Number:** L2461868

Project Number: 24J3350 **Report Date:** 11/06/24

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L2461868
CONTEST

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J3350

SENDING LABORATORY:	RECEIVING LABORATORY:
Pace New England	Alpha Analytical Laboratory
39 Spruce Street	8 Walkup Drive
East Longmeadow, MA 01028	Westborough, MA 01581
Phone: 413.525.2332	Phone :(508) 898-9220
Fax: 413.525.6405	Fax: (508) 898-9193
Project Manager: Raymond J. McCarthy	

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J3350-04	**MW-2(SS)102224**	**Soil**	**Sampled:**	**10/22/24 11:30**	**CAT B**
S-8151 DER TCL		11/20/24 14:00		11/05/24 11:30	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (C)					

Released By	Date	Received By	Date
	10-23-24 1630		10-23-24 1630
Released By	Date	Received By	Date
	10-23-24 1815		10/23/24 1815

Page 1 of 1

Pace Analytical®
Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028
Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

https://www.pacelabs.com/ Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York) 24J3350

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address:	201 Fuller Rd, Suite 201, Albany, NY 12203
Consultant Phone:	518-250-7334
Callout Project Name:	Former Commander 0:1 Terminal off-site
Project Location:	Nassau
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbaquingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYS DEC
Sampled By:	Maeve Tucker

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bagnato@Arcadis.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

| | | |

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November 22, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Nassau, NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24J3715

Enclosed are results of analyses for samples as received by the laboratory on October 24, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 11/22/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J3715

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DPT-2(5-10)102324	24J3715-01	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
DPT-1(5-10)102324	24J3715-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
DPT-1(11-13)GW102324	24J3715-03	Ground Water		SW-846 8260D	
				SW-846 8270E	
DPT-1(15-17)GW102324	24J3715-04	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
Trip Blank 102324	24J3715-05	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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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
S114148-CCB4

D9-NEtFOSE
S114148-CCB4

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S114148-CCB4

N-methylperfluorooctanesulfonamidoethanol(NMeF
S114148-CCB4

PF-17C

Extracted internal standard is outside of control limits. Analyte is a known difficult compound.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
24J3715-04[DPT-1(15-17)GW102324], B392050-BLK1, B392050-BS1, B392050-MRL1

13C2-6:2FTS
24J3715-04[DPT-1(15-17)GW102324], B392050-BLK1, B392050-BS1, B392050-MRL1, B392312-MRL1

13C2-8:2FTS
24J3715-04[DPT-1(15-17)GW102324]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FT
24J3715-04[DPT-1(15-17)GW102324]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
24J3715-04[DPT-1(15-17)GW102324], B392050-BLK1, B392050-BS1, B392050-MRL1

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24J3715-04[DPT-1(15-17)GW102324], B392050-BLK1, B392050-BS1, B392050-MRL1, B392312-MRL1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
S114095-CCV2, S114129-CCV2, S114129-CCV3, S114148-CCV2, S114148-CCV3, S114148-CCV4

13C2-6:2FTS
S114095-CCV2, S114129-CCV2, S114129-CCV3, S114148-CCV2, S114148-CCV3, S114148-CCV4

13C4-PFHpA
S114309-CCV2

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
S114095-CCV2, S114129-CCV2, S114129-CCV3, S114148-CCV2, S114148-CCV3, S114148-CCV4

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
S114095-CCV2, S114129-CCV2, S114129-CCV3, S114148-CCV2, S114148-CCV3, S114148-CCV4

Perfluoroheptanoic acid (PFHpA)
S114309-CCV2

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:

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FT
S114309-CCV2

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
S114309-CCV2, S114309-CCV4

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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:

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
24J3715-01RE1[DPT-2(5-10)102324]

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24J3715-01RE1[DPT-2(5-10)102324]

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
S114095-CCV2, S114129-CCV2, S114129-CCV3, S114148-CCV2, S114148-CCV3, S114148-CCV4

Perfluorododecanesulfonic acid (PFDoS)
S114148-CCV4

SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids
24J3715-02[DPT-1(5-10)102324]

SW-846 6010D

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Copper
B391581-BS1, B391581-BSD1

Manganese
B391581-BS1, B391581-BSD1

SW-846 8081B

Qualifications:

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:

4,4'-DDD
B390946-BS1, B390946-BSD1

4,4'-DDD [2C]
B390946-BS1, B390946-BSD1

alpha-BHC
B390946-BS1, B390946-BSD1

alpha-BHC [2C]
B390946-BS1, B390946-BSD1

delta-BHC
B390946-BS1, B390946-BSD1

delta-BHC [2C]
B390946-BS1, B390946-BSD1

gamma-BHC (Lindane)
B390946-BS1, B390946-BSD1

gamma-BHC (Lindane) [2C]
B390946-BS1, B390946-BSD1

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V-20

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

Analyte & Samples(s) Qualified:

4,4'-DDD
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

4,4'-DDD [2C]
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

alpha-BHC
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

alpha-BHC [2C]
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

delta-BHC
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

delta-BHC [2C]
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

gamma-BHC (Lindane)
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

gamma-BHC (Lindane) [2C]
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

SW-846 8260D

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:

2-Hexanone (MBK)
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], 24J3715-05[Trip Blank 102324], B390494-BLK1, B390494-BS1, B390494-BSD1, S112951-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:

1,2,3-Trichlorobenzene
B390710-BS1, B390710-BSD1, S113029-CCV1

1,2,4-Trichlorobenzene
B390710-BS1, B390710-BSD1, S113029-CCV1

Dichlorodifluoromethane (Freon 12)
B390494-BS1, B390494-BSD1, S112951-CCV1

Trichlorofluoromethane (Freon 11)
B390494-BS1, B390494-BSD1, S112951-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
24J3715-04[DPT-1(15-17)GW102324], B390627-BLK1, B390627-BS1, B390627-BSD1

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24J3715-01RE1[DPT-2(5-10)102324], 24J3715-04RE1[DPT-1(15-17)GW102324]

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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
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], B390568-BLK1, B390568-BS1, B390568-BSD1

Pyridine
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324], B390945-BLK1, B390945-BS1, B390945-BSD1

L-07

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B390568-BS1

L-07A

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
B390901-BSD1

R-05

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
24J3715-01[DPT-2(5-10)102324], B390901-BLK1, B390901-BS1

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
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

Dibenz(a,h)anthracene
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

Di-n-octylphthalate
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

Indeno(1,2,3-cd)pyrene
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

V-05

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

Analyte & Samples(s) Qualified:

Aniline
24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], S113208-CCV1

Benzaldehyde
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324], B390945-BLK1, B390945-BS1, B390945-BSD1, S113227-CCV2

V-06

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

Analyte & Samples(s) Qualified:

Caprolactam
B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV2

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
24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324], 24J3715-03[DPT-1(11-13)GW102324], 24J3715-04[DPT-1(15-17)GW102324], B390568-BLK1, B390568-BS1, B390568-BSD1, B390945-BLK1, B390945-BS1, B390945-BSD1, S111153-ICV1, S113189-CCV1, S113208-CCV1, S113227-CCV1, S113334-ICV1

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Z-01

Sample was re-extracted outside of holding time due to B flag result in the method blank. Data performed outside of holding time is also reported since blank results are acceptable.

Analyte & Samples(s) Qualified:

1,4-Dioxane

24J3715-04[DPT-1(15-17)GW102324]

SW-846 9014

Qualifications:

H-01

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

Analyte & Samples(s) Qualified:

Cyanide

24J3715-01[DPT-2(5-10)102324], 24J3715-02[DPT-1(5-10)102324]

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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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	11	0.44	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Amyl Alcohol (TAA)	ND	4.3	0.28	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.43	0.035	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.11	0.033	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Benzene	0.38	0.22	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromochloromethane	ND	0.22	0.069	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromodichloromethane	ND	0.22	0.040	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromoform	ND	0.22	0.065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Bromomethane	ND	0.43	0.32	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
2-Butanone (MEK)	0.56	4.3	0.31	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Butyl Alcohol (TBA)	ND	4.3	0.74	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
n-Butylbenzene	0.091	0.22	0.034	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
sec-Butylbenzene	0.12	0.22	0.035	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Butylbenzene	ND	0.22	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.11	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Carbon Disulfide	ND	1.1	0.33	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Carbon Tetrachloride	ND	0.22	0.042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chlorobenzene	ND	0.22	0.038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chlorodibromomethane	ND	0.11	0.028	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chloroethane	ND	0.43	0.099	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chloroform	ND	0.43	0.041	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Chloromethane	ND	0.43	0.11	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Cyclohexane	ND	0.43	0.38	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.1	0.14	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dibromoethane (EDB)	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dichlorobenzene	ND	0.22	0.038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,3-Dichlorobenzene	ND	0.22	0.033	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,4-Dichlorobenzene	ND	0.22	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.43	0.043	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1-Dichloroethane	ND	0.22	0.032	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dichloroethane	ND	0.22	0.027	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1-Dichloroethylene	ND	0.22	0.039	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
cis-1,2-Dichloroethylene	1.4	0.22	0.044	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
trans-1,2-Dichloroethylene	ND	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2-Dichloropropane	ND	0.22	0.037	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
cis-1,3-Dichloropropene	ND	0.11	0.028	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
trans-1,3-Dichloropropene	ND	0.11	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Diisopropyl Ether (DIPE)	ND	0.11	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Ethanol	ND	43	4.4	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Ethylbenzene	0.25	0.22	0.030	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
2-Hexanone (MBK)	ND	2.2	0.29	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Isopropylbenzene (Cumene)	0.11	0.22	0.034	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
p-Isopropyltoluene (p-Cymene)	0.095	0.22	0.034	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Methyl Acetate	0.39	2.2	0.10	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.15	0.22	0.036	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Methyl Cyclohexane	0.11	0.22	0.029	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Methylene Chloride	ND	1.1	0.041	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	2.2	0.30	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Naphthalene	0.31	0.43	0.053	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
n-Propylbenzene	0.16	0.22	0.024	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Styrene	ND	0.22	0.028	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.11	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Tetrachloroethylene	ND	0.22	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Toluene	0.68	0.22	0.025	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,3-Trichlorobenzene	ND	1.1	0.047	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,4-Trichlorobenzene	ND	0.22	0.042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,1-Trichloroethane	ND	0.22	0.030	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,2-Trichloroethane	ND	0.22	0.039	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Trichloroethylene	0.13	0.22	0.036	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Trichlorofluoromethane (Freon 11)	ND	0.43	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,3-Trichloropropane	ND	0.43	0.058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,2,4-Trimethylbenzene	0.64	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
1,3,5-Trimethylbenzene	0.13	0.22	0.037	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Vinyl Chloride	ND	0.43	0.042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
m+p Xylene	0.34	0.43	0.053	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 12:44	EEH
o-Xylene	0.22	0.22	0.034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH
Xylenes (total)	0.56	0.22	0.22	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 12:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.7	70-130		10/29/24 12:44
Toluene-d8	89.2	70-130		10/29/24 12:44
4-Bromofluorobenzene	109	70-130		10/29/24 12:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	2.1	0.14	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Atrazine	ND	2.1	0.14	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzaldehyde	ND	1.1	0.17	mg/Kg dry	1	V-05	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Biphenyl	ND	2.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Caprolactam	ND	1.1	0.18	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Acenaphthene	ND	0.53	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Acenaphthylene	ND	0.53	0.096	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Acetophenone	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Aniline	ND	1.1	0.18	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Anthracene	ND	0.53	0.093	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(a)anthracene	ND	0.53	0.086	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(a)pyrene	ND	0.53	0.096	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(b)fluoranthene	ND	0.53	0.085	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(g,h,i)perylene	ND	0.53	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Benzo(k)fluoranthene	ND	0.53	0.096	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Bis(2-chloroethoxy)methane	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Bis(2-chloroethyl)ether	ND	1.1	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,2'-oxybis(1-Chloropropane)	ND	1.1	0.67	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Bis(2-Ethylhexyl)phthalate	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Bromophenylphenylether	ND	1.1	0.097	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Butylbenzylphthalate	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Carbazole	ND	0.53	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Chloroaniline	ND	2.1	0.19	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Chloro-3-methylphenol	ND	2.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Chloronaphthalene	ND	1.1	0.093	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Chlorophenol	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Chlorophenylphenylether	ND	1.1	0.088	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Chrysene	ND	0.53	0.094	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Dibenz(a,h)anthracene	ND	0.53	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Dibenzofuran	ND	1.1	0.094	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Di-n-butylphthalate	ND	1.1	0.40	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
3,3-Dichlorobenzidine	ND	0.53	0.23	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dichlorophenol	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Diethylphthalate	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dimethylphenol	ND	1.1	0.24	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Dimethylphthalate	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4,6-Dinitro-2-methylphenol	ND	1.1	0.83	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dinitrophenol	ND	2.1	0.81	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4-Dinitrotoluene	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,6-Dinitrotoluene	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Di-n-octylphthalate	ND	1.1	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Fluoranthene	ND	0.53	0.087	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Fluorene	ND	0.53	0.095	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Hexachlorobenzene	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	1.1	0.095	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Hexachlorocyclopentadiene	ND	1.1	0.69	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Hexachloroethane	ND	1.1	0.098	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Indeno(1,2,3-cd)pyrene	ND	0.53	0.17	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Isophorone	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
1-Methylnaphthalene	0.75	0.53	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Methylnaphthalene	0.17	0.53	0.090	mg/Kg dry	1	J	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Methylphenol	ND	1.1	0.14	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
3/4-Methylphenol	ND	1.1	0.14	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Naphthalene	ND	0.53	0.19	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Nitroaniline	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
3-Nitroaniline	ND	1.1	0.22	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Nitroaniline	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Nitrobenzene	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2-Nitrophenol	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
4-Nitrophenol	ND	2.1	0.28	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
N-Nitrosodi-n-propylamine	ND	1.1	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Pentachlorophenol	ND	1.1	0.38	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Phenanthrene	0.10	0.53	0.094	mg/Kg dry	1	J	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Phenol	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Pyrene	ND	0.53	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
Pyridine	ND	1.1	0.12	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/30/24	11/1/24 17:55	KMC
1,2,4,5-Tetrachlorobenzene	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4,5-Trichlorophenol	ND	1.1	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC
2,4,6-Trichlorophenol	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 17:55	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.5	30-130		11/1/24 17:55
Phenol-d6	45.7	30-130		11/1/24 17:55
Nitrobenzene-d5	44.0	30-130		11/1/24 17:55
2-Fluorobiphenyl	44.7	30-130		11/1/24 17:55
2,4,6-Tribromophenol	54.5	30-130		11/1/24 17:55
p-Terphenyl-d14	45.7	30-130		11/1/24 17:55

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.15	0.12	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 6:05	CJM
1,4-Dioxane	ND	0.16	0.12	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 7:29	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	65.5	15-110		11/12/24 7:29
1,4-Dioxane-d8	30.6	15-110		11/15/24 6:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.2	0.50	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoropentanoic acid (PFPeA)	ND	0.62	0.070	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorohexanoic acid (PFHxA)	ND	0.31	0.051	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.31	0.022	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorooctanoic acid (PFOA)	ND	0.31	0.048	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorononanoic acid (PFNA)	ND	0.31	0.021	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorodecanoic acid (PFDA)	ND	0.31	0.027	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.31	0.036	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorododecanoic acid (PFDoA)	ND	0.31	0.033	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.31	0.034	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.31	0.031	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.31	0.032	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.31	0.039	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.31	0.12	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.31	0.033	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.31	0.049	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.31	0.034	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.31	0.049	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.31	0.047	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	1.2	0.11	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	1.2	0.78	µg/kg dry	1	V-20	Draft Method 1633	11/17/24	11/20/24 18:47	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	1.2	0.14	µg/kg dry	1	V-20	Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.31	0.048	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.31	0.038	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.31	0.036	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-MeFOSAA (NMeFOSAA)	ND	0.31	0.055	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-EtFOSAA (NEtFOSAA)	ND	0.31	0.046	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	3.1	0.33	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	3.1	0.33	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.2	0.079	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.2	0.092	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
9Cl-PF3ONS (F53B Minor)	ND	1.2	0.089	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
11Cl-PF3OUdS (F53B Major)	ND	1.2	0.14	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	3.1	0.29	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	15	2.1	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	15	2.3	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.62	0.049	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.62	0.050	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.62	0.051	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.62	0.093	µg/kg dry	1		Draft Method 1633	11/17/24	11/20/24 18:47	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	52.9	10-130		11/20/24 18:47
13C5-PFPeA	66.5	35-150		11/20/24 18:47
13C5-PFHxA	67.4	55-150		11/20/24 18:47
13C4-PFHpA	66.2	55-150		11/20/24 18:47
13C8-PFOA	72.7	60-140		11/20/24 18:47
13C9-PFNA	69.7	55-140		11/20/24 18:47
13C6-PFDA	69.1	50-140		11/20/24 18:47
13C7-PFUnA	67.6	30-140		11/20/24 18:47
13C2-PFDoA	61.1	10-150		11/20/24 18:47
13C2-PFTeDA	48.7	10-130		11/20/24 18:47
13C3-PFBS	75.6	55-150		11/20/24 18:47
13C3-PFHxS	72.3	55-150		11/20/24 18:47
13C8-PFOS	74.7	45-140		11/20/24 18:47
13C2-4:2FTS	127	60-200		11/20/24 18:47
13C2-6:2FTS	136	60-200		11/20/24 18:47
13C2-8:2FTS	131	50-200		11/20/24 18:47
13C8-PFOSA	65.0	30-130		11/20/24 18:47
D3-NMeFOSA	29.9	15-130		11/20/24 18:47
D5-NEtFOSA	23.8	10-130		11/20/24 18:47
D3-NMeFOSAA	83.4	45-200		11/20/24 18:47
D5-NEtFOSAA	89.0	10-200		11/20/24 18:47
D7-NMeFOSE	32.0	10-150		11/20/24 18:47
D9-NEtFOSE	29.0	10-150		11/20/24 18:47
13C3-HFPO-DA	76.2	25-160		11/20/24 18:47

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.015	0.0071	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
gamma-Chlordane [1]	ND	0.015	0.0067	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Aldrin [1]	ND	0.015	0.0015	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
alpha-BHC [1]	ND	0.015	0.0073	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:28	TG
beta-BHC [1]	ND	0.015	0.0082	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
delta-BHC [1]	ND	0.015	0.0081	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:28	TG
gamma-BHC (Lindane) [1]	ND	0.0062	0.0021	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:28	TG
4,4'-DDD [1]	ND	0.012	0.0026	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:28	TG
4,4'-DDE [2]	0.0024	0.012	0.0020	mg/Kg dry	1	J	SW-846 8081B	10/30/24	11/7/24 13:28	TG
4,4'-DDT [1]	ND	0.012	0.0016	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Dieldrin [1]	ND	0.012	0.0015	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endosulfan I [1]	ND	0.015	0.0074	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endosulfan II [1]	ND	0.025	0.0066	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endosulfan sulfate [1]	ND	0.025	0.0059	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endrin [1]	ND	0.025	0.0078	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Endrin aldehyde [1]	ND	0.025	0.0061	mg/Kg dry	1		SW-846 8081B	10/30/24	11/8/24 0:32	TG
Endrin ketone [1]	ND	0.025	0.0062	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Heptachlor [1]	ND	0.015	0.0017	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Heptachlor epoxide [1]	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Methoxychlor [1]	ND	0.15	0.018	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG
Toxaphene [1]	ND	0.31	0.13	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		11/8/24 0:32
Decachlorobiphenyl [1]	83.4	30-150		11/7/24 13:28
Decachlorobiphenyl [2]	86.5	30-150		11/7/24 13:28
Decachlorobiphenyl [2]	104	30-150		11/8/24 0:32
Tetrachloro-m-xylene [1]	92.9	30-150		11/8/24 0:32
Tetrachloro-m-xylene [1]	77.1	30-150		11/7/24 13:28
Tetrachloro-m-xylene [2]	86.6	30-150		11/8/24 0:32
Tetrachloro-m-xylene [2]	72.2	30-150		11/7/24 13:28

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.25	0.062	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1221 [1]	ND	0.25	0.12	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1232 [1]	ND	0.25	0.062	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1242 [1]	ND	0.25	0.069	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1248 [1]	ND	0.25	0.060	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1254 [1]	ND	0.25	0.075	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1260 [1]	ND	0.25	0.052	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1262 [1]	ND	0.25	0.065	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM
Aroclor-1268 [1]	ND	0.25	0.066	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:05	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.6	30-150		11/4/24 16:05
Decachlorobiphenyl [2]	70.6	30-150		11/4/24 16:05
Tetrachloro-m-xylene [1]	71.5	30-150		11/4/24 16:05
Tetrachloro-m-xylene [2]	80.8	30-150		11/4/24 16:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2400	52	16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Antimony	ND	5.2	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Arsenic	5.0	10	1.5	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Barium	27	5.2	1.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Beryllium	0.24	0.52	0.16	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Cadmium	ND	1.0	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Calcium	13000	52	27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Chromium	6.9	2.1	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Cobalt	1.5	5.2	0.88	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Copper	7.9	4.2	3.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Iron	3000	52	24	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Lead	26	1.6	1.1	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Magnesium	1600	52	12	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Manganese	79	1.0	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Mercury	0.13	0.077	0.035	mg/Kg dry	1		SW-846 7471B	11/14/24	11/15/24 11:37	AAJ
Nickel	6.2	2.1	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Potassium	860	520	130	mg/Kg dry	1		SW-846 6010D	11/6/24	11/20/24 13:33	HNN
Selenium	ND	10	2.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Silver	ND	1.0	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Sodium	600	520	150	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Thallium	ND	5.2	1.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Vanadium	15	2.1	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN
Zinc	29	2.1	1.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:20	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-2(5-10)102324 | Sampled: 10/23/2024 09:25

Sample ID: 24J3715-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	31.8			% Wt	1		SM 2540G	10/25/24	10/25/24 20:33	ANR
Cyanide	ND	1.5	1.1	mg/Kg dry	1	H-01	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.36	5.9	0.24	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Amyl Alcohol (TAA)	ND	2.4	0.15	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.24	0.019	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.059	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Benzene	0.10	0.12	0.017	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromochloromethane	ND	0.12	0.038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromodichloromethane	ND	0.12	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromoform	ND	0.12	0.035	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Bromomethane	ND	0.24	0.17	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
2-Butanone (MEK)	ND	2.4	0.17	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Butyl Alcohol (TBA)	ND	2.4	0.40	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
n-Butylbenzene	0.031	0.12	0.018	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
sec-Butylbenzene	0.091	0.12	0.019	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Butylbenzene	0.027	0.12	0.020	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.059	0.019	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Carbon Disulfide	ND	0.59	0.18	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Carbon Tetrachloride	ND	0.12	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chlorobenzene	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chlorodibromomethane	ND	0.059	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chloroethane	ND	0.24	0.054	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chloroform	ND	0.24	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Chloromethane	ND	0.24	0.058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Cyclohexane	ND	0.24	0.21	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.59	0.074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dibromoethane (EDB)	ND	0.059	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dichlorobenzene	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,3-Dichlorobenzene	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,4-Dichlorobenzene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.24	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1-Dichloroethane	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dichloroethane	ND	0.12	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1-Dichloroethylene	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
cis-1,2-Dichloroethylene	ND	0.12	0.024	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
trans-1,2-Dichloroethylene	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2-Dichloropropane	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
cis-1,3-Dichloropropene	ND	0.059	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
trans-1,3-Dichloropropene	ND	0.059	0.017	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Diisopropyl Ether (DIPE)	ND	0.059	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Ethanol	ND	24	2.4	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Ethylbenzene	ND	0.12	0.016	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
2-Hexanone (MBK)	ND	1.2	0.16	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Isopropylbenzene (Cumene)	0.078	0.12	0.018	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Methyl Acetate	0.43	1.2	0.056	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Methyl Cyclohexane	0.040	0.12	0.016	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Methylene Chloride	ND	0.59	0.022	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	1.2	0.16	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Naphthalene	ND	0.24	0.029	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
n-Propylbenzene	0.060	0.12	0.013	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Styrene	ND	0.12	0.015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.059	0.012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Tetrachloroethylene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Toluene	0.029	0.12	0.013	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,3-Trichlorobenzene	ND	0.59	0.026	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,4-Trichlorobenzene	ND	0.12	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,1-Trichloroethane	ND	0.12	0.016	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,2-Trichloroethane	ND	0.12	0.021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Trichloroethylene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Trichlorofluoromethane (Freon 11)	ND	0.24	0.017	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,3-Trichloropropane	ND	0.24	0.031	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.12	0.019	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,2,4-Trimethylbenzene	ND	0.12	0.018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
1,3,5-Trimethylbenzene	ND	0.12	0.020	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Vinyl Chloride	ND	0.24	0.023	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH
m+p Xylene	0.047	0.24	0.029	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
o-Xylene	0.034	0.12	0.018	mg/Kg dry	1	J	SW-846 8260D	10/29/24	10/29/24 13:09	EEH
Xylenes (total)	ND	0.12	0.12	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 13:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.6	70-130		10/29/24 13:09
Toluene-d8	89.3	70-130		10/29/24 13:09
4-Bromofluorobenzene	87.6	70-130		10/29/24 13:09

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.1	0.078	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Atrazine	ND	1.1	0.074	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzaldehyde	ND	0.58	0.092	mg/Kg dry	1	V-05	SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Biphenyl	ND	1.1	0.073	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Caprolactam	ND	0.58	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Acenaphthene	ND	0.29	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Acenaphthylene	ND	0.29	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Acetophenone	ND	0.58	0.060	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Aniline	ND	0.58	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Anthracene	ND	0.29	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(a)anthracene	ND	0.29	0.047	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(a)pyrene	ND	0.29	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(b)fluoranthene	ND	0.29	0.046	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(g,h,i)perylene	ND	0.29	0.082	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Benzo(k)fluoranthene	ND	0.29	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Bis(2-chloroethoxy)methane	ND	0.58	0.061	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Bis(2-chloroethyl)ether	ND	0.58	0.082	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.58	0.36	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.58	0.068	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Bromophenylphenylether	ND	0.58	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Butylbenzylphthalate	ND	0.58	0.064	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Carbazole	ND	0.29	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Chloroaniline	ND	1.1	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Chloro-3-methylphenol	ND	1.1	0.060	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Chloronaphthalene	ND	0.58	0.050	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Chlorophenol	ND	0.58	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Chlorophenylphenylether	ND	0.58	0.048	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Chrysene	ND	0.29	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Dibenz(a,h)anthracene	ND	0.29	0.079	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Dibenzofuran	ND	0.58	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Di-n-butylphthalate	ND	0.58	0.22	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
3,3-Dichlorobenzidine	ND	0.29	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dichlorophenol	ND	0.58	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Diethylphthalate	ND	0.58	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dimethylphenol	ND	0.58	0.13	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Dimethylphthalate	ND	0.58	0.054	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4,6-Dinitro-2-methylphenol	ND	0.58	0.45	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dinitrophenol	ND	1.1	0.44	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4-Dinitrotoluene	ND	0.58	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,6-Dinitrotoluene	ND	0.58	0.061	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Di-n-octylphthalate	ND	0.58	0.081	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Fluoranthene	ND	0.29	0.047	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Fluorene	ND	0.29	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Hexachlorobenzene	ND	0.58	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.58	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Hexachlorocyclopentadiene	ND	0.58	0.38	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Hexachloroethane	ND	0.58	0.053	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Indeno(1,2,3-cd)pyrene	ND	0.29	0.093	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Isophorone	ND	0.58	0.061	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
1-Methylnaphthalene	ND	0.29	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Methylnaphthalene	ND	0.29	0.049	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Methylphenol	ND	0.58	0.077	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
3/4-Methylphenol	ND	0.58	0.076	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Naphthalene	ND	0.29	0.10	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Nitroaniline	ND	0.58	0.070	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
3-Nitroaniline	ND	0.58	0.12	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Nitroaniline	ND	0.58	0.064	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Nitrobenzene	ND	0.58	0.072	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2-Nitrophenol	ND	0.58	0.056	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
4-Nitrophenol	ND	1.1	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.58	0.073	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
N-Nitrosodi-n-propylamine	ND	0.58	0.080	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Pentachlorophenol	ND	0.58	0.21	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Phenanthrene	ND	0.29	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Phenol	ND	0.58	0.073	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Pyrene	ND	0.29	0.060	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
Pyridine	ND	0.58	0.067	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/30/24	11/1/24 18:19	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.58	0.057	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4,5-Trichlorophenol	ND	0.58	0.059	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC
2,4,6-Trichlorophenol	ND	0.58	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:19	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.7	30-130		11/1/24 18:19
Phenol-d6	52.5	30-130		11/1/24 18:19
Nitrobenzene-d5	47.5	30-130		11/1/24 18:19
2-Fluorobiphenyl	49.6	30-130		11/1/24 18:19
2,4,6-Tribromophenol	60.2	30-130		11/1/24 18:19
p-Terphenyl-d14	52.6	30-130		11/1/24 18:19

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0083	0.0038	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
gamma-Chlordane [1]	ND	0.0083	0.0036	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Aldrin [1]	ND	0.0083	0.00081	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
alpha-BHC [1]	ND	0.0083	0.0039	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:56	TG
beta-BHC [1]	ND	0.0083	0.0044	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
delta-BHC [1]	ND	0.0083	0.0044	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:56	TG
gamma-BHC (Lindane) [1]	ND	0.0033	0.0011	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:56	TG
4,4'-DDD [1]	ND	0.0066	0.0014	mg/Kg dry	1	V-20	SW-846 8081B	10/30/24	11/7/24 13:56	TG
4,4'-DDE [2]	0.0013	0.0066	0.0011	mg/Kg dry	1	J	SW-846 8081B	10/30/24	11/7/24 13:56	TG
4,4'-DDT [1]	ND	0.0066	0.00085	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Dieldrin [1]	ND	0.0066	0.00079	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endosulfan I [1]	ND	0.0083	0.0040	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endosulfan II [1]	ND	0.013	0.0036	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endosulfan sulfate [1]	ND	0.013	0.0032	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endrin [1]	ND	0.013	0.0042	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Endrin aldehyde [1]	ND	0.013	0.0033	mg/Kg dry	1		SW-846 8081B	10/30/24	11/8/24 1:01	TG
Endrin ketone [1]	ND	0.013	0.0033	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Heptachlor [1]	ND	0.0083	0.00091	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Heptachlor epoxide [1]	ND	0.0083	0.00096	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Methoxychlor [1]	ND	0.083	0.0098	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG
Toxaphene [1]	ND	0.17	0.069	mg/Kg dry	1		SW-846 8081B	10/30/24	11/7/24 13:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.6	30-150		11/8/24 1:01
Decachlorobiphenyl [1]	56.7	30-150		11/7/24 13:56
Decachlorobiphenyl [2]	68.2	30-150		11/8/24 1:01
Decachlorobiphenyl [2]	58.8	30-150		11/7/24 13:56
Tetrachloro-m-xylene [1]	58.8	30-150		11/7/24 13:56
Tetrachloro-m-xylene [1]	67.1	30-150		11/8/24 1:01
Tetrachloro-m-xylene [2]	53.6	30-150		11/7/24 13:56
Tetrachloro-m-xylene [2]	62.3	30-150		11/8/24 1:01

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	0.033	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1221 [1]	ND	0.14	0.063	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1232 [1]	ND	0.14	0.033	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1242 [1]	ND	0.14	0.037	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1248 [1]	ND	0.14	0.032	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1254 [1]	ND	0.14	0.040	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1260 [1]	ND	0.14	0.028	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1262 [1]	ND	0.14	0.035	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM
Aroclor-1268 [1]	ND	0.14	0.036	mg/Kg dry	4		SW-846 8082A	10/31/24	11/4/24 16:23	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.7	30-150		11/4/24 16:23
Decachlorobiphenyl [2]	61.0	30-150		11/4/24 16:23
Tetrachloro-m-xylene [1]	58.4	30-150		11/4/24 16:23
Tetrachloro-m-xylene [2]	64.5	30-150		11/4/24 16:23

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	29	9.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Antimony	ND	2.9	0.76	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Arsenic	6.8	5.7	0.81	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Barium	19	2.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Beryllium	0.20	0.29	0.087	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Cadmium	ND	0.57	0.27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Calcium	7200	29	15	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Chromium	14	1.1	0.72	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Cobalt	1.5	2.9	0.49	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Copper	12	2.3	2.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Iron	9400	29	13	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Lead	9.8	0.86	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Magnesium	1200	29	6.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Manganese	100	0.57	0.33	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Mercury	0.031	0.043	0.019	mg/Kg dry	1	J	SW-846 7471B	11/14/24	11/15/24 11:39	AAJ
Nickel	5.2	1.1	0.79	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Potassium	430	290	71	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 20:21	HNN
Selenium	ND	5.7	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Silver	ND	0.57	0.35	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Sodium	530	290	85	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Thallium	ND	2.9	0.91	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Vanadium	14	1.1	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN
Zinc	15	1.1	1.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:28	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(5-10)102324 | Sampled: 10/23/2024 11:20

Sample ID: 24J3715-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.1			% Wt	1	H-06	SM 2540G	11/4/24	11/4/24 13:43	MLR
Cyanide	ND	0.78	0.59	mg/Kg dry	1	H-01	SW-846 9014	11/17/24	11/18/24 10:30	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.2	50	2.0	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Benzene	0.15	1.0	0.14	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Butyl Alcohol (TBA)	130	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Diisopropyl Ether (DIPE)	0.31	0.50	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.5	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		10/28/24 14:16
Toluene-d8	99.6	70-130		10/28/24 14:16
4-Bromofluorobenzene	99.8	70-130		10/28/24 14:16

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzaldehyde	ND	9.5	0.69	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Acenaphthylene	ND	4.7	0.61	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Acetophenone	ND	9.5	0.48	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Aniline	ND	19	8.5	µg/L	1	V-05	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.55	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.5	0.71	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Bromophenylphenylether	ND	9.5	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Butylbenzylphthalate	ND	9.5	0.37	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Carbazole	ND	9.5	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Chlorophenylphenylether	ND	9.5	0.82	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Di-n-butylphthalate	ND	9.5	0.48	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
3,3-Dichlorobenzidine	ND	9.5	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dichlorophenol	ND	9.5	0.44	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Dimethylphthalate	ND	9.5	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Fluorene	ND	4.7	0.72	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Hexachlorobenzene	ND	9.5	0.68	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(11-13)GW102324 | Sampled: 10/23/2024 14:50

Sample ID: 24J3715-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Hexachloroethane	ND	9.5	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Isophorone	ND	9.5	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
1-Methylnaphthalene	ND	4.7	0.93	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Methylphenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
3/4-Methylphenol	ND	9.5	0.46	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Naphthalene	ND	4.7	0.86	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Nitroaniline	ND	9.5	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2-Nitrophenol	ND	9.5	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.46	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Pentachlorophenol	ND	9.5	0.46	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Phenol	ND	9.5	0.56	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Pyrene	ND	4.7	0.44	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	SW-846 8270E	10/26/24	11/1/24 13:56	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1		SW-846 8270E	10/26/24	11/1/24 13:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.9	15-110		11/1/24 13:56
Phenol-d6	29.5	15-110		11/1/24 13:56
Nitrobenzene-d5	78.2	30-130		11/1/24 13:56
2-Fluorobiphenyl	79.1	30-130		11/1/24 13:56
2,4,6-Tribromophenol	90.5	15-110		11/1/24 13:56
p-Terphenyl-d14	95.1	30-130		11/1/24 13:56

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chloroform	0.61	2.0	0.19	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1-Dichloroethane	0.18	1.0	0.15	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
cis-1,2-Dichloroethylene	0.33	1.0	0.20	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.32	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Tetrachloroethylene	0.35	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 14:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		10/28/24 14:42
Toluene-d8	100	70-130		10/28/24 14:42
4-Bromofluorobenzene	102	70-130		10/28/24 14:42

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Caprolactam	ND	9.4	0.67	µg/L	1	L-04	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Acetophenone	ND	9.4	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Aniline	ND	19	8.4	µg/L	1	V-05	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.4	0.70	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.30	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Carbazole	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Chloro-3-methylphenol	ND	9.4	0.60	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Chloronaphthalene	ND	9.4	0.76	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Chlorophenol	ND	9.4	0.38	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Diethylphthalate	ND	9.4	0.52	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dimethylphenol	ND	9.4	0.38	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Fluorene	ND	4.7	0.71	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Hexachloroethane	ND	9.4	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Isophorone	ND	9.4	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
1-Methylnaphthalene	ND	4.7	0.92	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Nitrobenzene	ND	9.4	0.64	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.62	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Phenol	ND	9.4	0.56	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	SW-846 8270E	10/26/24	11/1/24 14:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL
2,4,6-Trichlorophenol	ND	9.4	0.35	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.1	15-110		11/1/24 14:17
Phenol-d6	30.4	15-110		11/1/24 14:17
Nitrobenzene-d5	81.5	30-130		11/1/24 14:17
2-Fluorobiphenyl	80.9	30-130		11/1/24 14:17
2,4,6-Tribromophenol	71.2	15-110		11/1/24 14:17
p-Terphenyl-d14	96.7	30-130		11/1/24 14:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.26	0.20	0.033	µg/L	1		SW-846 8270E	11/4/24	11/6/24 2:48	GJB
1,4-Dioxane	0.32	0.20	0.033	µg/L	1	Z-01, B	SW-846 8270E	10/28/24	11/1/24 14:48	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	27.6	15-110		11/6/24 2:48
1,4-Dioxane-d8	24.8	15-110		11/1/24 14:48

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	4.3	2.4	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoropentanoic acid (PFPeA)	13	2.2	0.46	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorohexanoic acid (PFHxA)	13	1.1	0.26	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoroheptanoic acid (PFHpA)	8.8	1.1	0.29	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorooctanoic acid (PFOA)	13	1.1	0.28	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorononanoic acid (PFNA)	1.0	1.1	0.20	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorodecanoic acid (PFDA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorododecanoic acid (PFDoA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.1	0.32	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.1	0.28	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorobutanesulfonic acid (PFBS)	1.0	1.1	0.23	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoropentanesulfonic acid (PFPeS)	0.66	1.1	0.28	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorohexanesulfonic acid (PFHxS)	3.3	1.1	0.30	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.1	0.36	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorooctanesulfonic acid (PFOS)	4.7	1.1	0.41	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.1	0.27	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.3	0.80	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:17	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.3	3.3	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:17	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.3	1.2	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.1	0.25	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.1	0.35	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.1	0.36	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-MeFOSAA (NMeFOSAA)	ND	1.1	0.39	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-EtFOSAA (NEtFOSAA)	ND	1.1	0.43	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	11	2.9	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	11	2.9	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.3	1.1	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.3	0.89	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
9Cl-PF3ONS (F53B Minor)	ND	4.3	1.0	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
11Cl-PF3OUdS (F53B Major)	ND	4.3	1.2	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	11	2.3	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	54	12	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	54	10	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.2	0.38	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.2	0.60	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.2	0.58	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.2	0.59	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:17	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	67.0		10-130		11/18/24 20:17
13C5-PFPeA	68.2		35-150		11/18/24 20:17
13C5-PFHxA	64.3		55-150		11/18/24 20:17
13C4-PFHpA	63.7		55-150		11/18/24 20:17
13C8-PFOA	64.4		60-140		11/18/24 20:17
13C9-PFNA	67.4		55-140		11/18/24 20:17
13C6-PFDA	66.9		50-140		11/18/24 20:17
13C7-PFUnA	61.5		30-140		11/18/24 20:17
13C2-PFDoA	51.7		10-150		11/18/24 20:17
13C2-PFTeDA	45.4		10-130		11/18/24 20:17
13C3-PFBS	72.8		55-150		11/18/24 20:17
13C3-PFHxS	69.0		55-150		11/18/24 20:17
13C8-PFOS	64.9		45-140		11/18/24 20:17
13C2-4:2FTS	**44.2**	*	60-200	PF-17C	11/18/24 20:17
13C2-6:2FTS	**47.8**	*	60-200	PF-17C	11/18/24 20:17
13C2-8:2FTS	**43.6**	*	50-200	PF-17C	11/18/24 20:17
13C8-PFOSA	60.5		30-130		11/18/24 20:17
D3-NMeFOSA	40.8		15-130		11/18/24 20:17
D5-NEtFOSA	43.8		10-130		11/18/24 20:17
D3-NMeFOSAA	67.9		45-200		11/18/24 20:17
D5-NEtFOSAA	61.7		10-200		11/18/24 20:17
D7-NMeFOSE	56.5		10-150		11/18/24 20:17
D9-NEtFOSE	55.0		10-150		11/18/24 20:17
13C3-HFPO-DA	75.7		25-160		11/18/24 20:17

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: DPT-1(15-17)GW102324 | Sampled: 10/23/2024 14:15

Sample ID: 24J3715-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	630	10		mg/L	1		Draft Method 1633	10/30/24	10/30/24 12:47	ll

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: Trip Blank 102324 | Sampled: 10/23/2024 00:00

Sample ID: 24J3715-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3715

Date Received: 10/24/2024

Field Sample #: Trip Blank 102324 | Sampled: 10/23/2024 00:00

Sample ID: 24J3715-05

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:00	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		10/28/24 13:00
Toluene-d8	100	70-130		10/28/24 13:00
4-Bromofluorobenzene	104	70-130		10/28/24 13:00

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01RE1 [DPT-2(5-10)102324]	B392312	10.2	5.00	11/17/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24J3715-04 [DPT-1(15-17)GW102324]	B390768	50.0	10/30/24

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633** **Leachates were extracted on 10/30/2024 per NO PREP in Batch B390768**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3715-04 [DPT-1(15-17)GW102324]	B392050	464	5.00	11/15/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3715-01 [DPT-2(5-10)102324]	B390560	10/25/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3715-02 [DPT-1(5-10)102324]	B391350	11/04/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B391581	1.51	50.0	11/06/24
24J3715-02 [DPT-1(5-10)102324]	B391581	1.50	50.0	11/06/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B392251	0.611	50.0	11/14/24
24J3715-02 [DPT-1(5-10)102324]	B392251	0.594	50.0	11/14/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B390946	10.2	10.0	10/30/24
24J3715-01RE1 [DPT-2(5-10)102324]	B390946	10.2	10.0	10/30/24
24J3715-02 [DPT-1(5-10)102324]	B390946	10.4	10.0	10/30/24
24J3715-02RE1 [DPT-1(5-10)102324]	B390946	10.4	10.0	10/30/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B391058	10.0	10.0	10/31/24
24J3715-02 [DPT-1(5-10)102324]	B391058	10.2	10.0	10/31/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
24J3715-01 [DPT-2(5-10)102324]	B390710	7.19	9.90	1	50	10/29/24
24J3715-02 [DPT-1(5-10)102324]	B390710	5.28	7.21	1	50	10/29/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3715-03 [DPT-1(11-13)GW102324]	B390494	5	5.00	10/25/24
24J3715-04 [DPT-1(15-17)GW102324]	B390494	5	5.00	10/25/24
24J3715-05 [Trip Blank 102324]	B390494	5	5.00	10/25/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B390901	20.0	1.00	10/30/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B390945	30.3	1.00	10/30/24
24J3715-02 [DPT-1(5-10)102324]	B390945	30.5	1.00	10/30/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01RE1 [DPT-2(5-10)102324]	B392039	20.8	1.00	11/12/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3715-03 [DPT-1(11-13)GW102324]	B390568	106	1.00	10/26/24
24J3715-04 [DPT-1(15-17)GW102324]	B390568	106	1.00	10/26/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3715-04 [DPT-1(15-17)GW102324]	B390627	980	1.00	10/28/24

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3715-04RE1 [DPT-1(15-17)GW102324]	B391271	1000	1.00	11/04/24

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3715-01 [DPT-2(5-10)102324]	B392420	1.07	50.0	11/17/24
24J3715-02 [DPT-1(5-10)102324]	B392420	1.10	50.0	11/17/24

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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 B390494 - SW-846 5030B										
Blank (B390494-BLK1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
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							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							R-05
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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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 B390494 - SW-846 5030B											
Blank (B390494-BLK1)				Prepared: 10/25/24 Analyzed: 10/28/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.00		101	70-130				
Surrogate: Toluene-d8	*23.5*		µg/L	25.00		93.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.00		102	70-130				
LCS (B390494-BS1)				Prepared: 10/25/24 Analyzed: 10/28/24							
Acetone	96.1	50	µg/L	100.0		96.1	70-160				†
tert-Amyl Alcohol (TAA)	116	5.0	µg/L	100.0		116	70-130				
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00		106	70-130				
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.00		108	70-130				
Benzene	11.4	1.0	µg/L	10.00		114	70-130				
Bromochloromethane	11.4	1.0	µg/L	10.00		114	70-130				
Bromodichloromethane	11.3	0.50	µg/L	10.00		113	70-130				
Bromoform	11.6	1.0	µg/L	10.00		116	70-130				
Bromomethane	12.0	2.0	µg/L	10.00		120	40-160				†
2-Butanone (MEK)	96.8	20	µg/L	100.0		96.8	40-160				†
tert-Butyl Alcohol (TBA)	112	20	µg/L	100.0		112	40-160				†
n-Butylbenzene	11.4	1.0	µg/L	10.00		114	70-130				
sec-Butylbenzene	11.1	1.0	µg/L	10.00		111	70-130				
tert-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.00		106	70-130				
Carbon Disulfide	111	5.0	µg/L	100.0		111	70-130				
Carbon Tetrachloride	12.1	5.0	µg/L	10.00		121	70-130				
Chlorobenzene	11.4	1.0	µg/L	10.00		114	70-130				
Chlorodibromomethane	11.5	0.50	µg/L	10.00		115	70-130				
Chloroethane	9.92	2.0	µg/L	10.00		99.2	70-130				
Chloroform	10.6	2.0	µg/L	10.00		106	70-130				
Chloromethane	9.87	2.0	µg/L	10.00		98.7	40-160				†
Cyclohexane	11.1	5.0	µg/L	10.00		111	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.00		104	70-130				
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112	70-130				
1,2-Dichlorobenzene	11.9	1.0	µg/L	10.00		119	70-130				
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.00		116	70-130				
1,4-Dichlorobenzene	11.3	1.0	µg/L	10.00		113	70-130				
Dichlorodifluoromethane (Freon 12)	12.4	2.0	µg/L	10.00		124	40-160			V-20	†
1,1-Dichloroethane	11.5	1.0	µg/L	10.00		115	70-130				
1,2-Dichloroethane	10.1	1.0	µg/L	10.00		101	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 B390494 - SW-846 5030B											
LCS (B390494-BS1)				Prepared: 10/25/24 Analyzed: 10/28/24							
1,1-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130				
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.00		114	70-130				
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.00		115	70-130				
1,2-Dichloropropane	11.0	1.0	µg/L	10.00		110	70-130				
cis-1,3-Dichloropropene	11.4	0.50	µg/L	10.00		114	70-130				
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112	70-130				
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.00		107	70-130				
Ethanol	112	50	µg/L	100.0		112	40-160				
Ethylbenzene	11.2	1.0	µg/L	10.00		112	70-130				
2-Hexanone (MBK)	116	10	µg/L	100.0		116	70-160			R-05	†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.00		116	70-130				
p-Isopropyltoluene (p-Cymene)	11.3	1.0	µg/L	10.00		113	70-130				
Methyl Acetate	11.1	1.0	µg/L	10.00		111	70-130				
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.00		108	70-130				
Methyl Cyclohexane	10.8	1.0	µg/L	10.00		108	70-130				
Methylene Chloride	11.2	5.0	µg/L	10.00		112	70-130				
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100.0		114	70-160				†
Naphthalene	11.2	2.0	µg/L	10.00		112	40-130				†
n-Propylbenzene	11.6	1.0	µg/L	10.00		116	70-130				
Styrene	11.5	1.0	µg/L	10.00		115	70-130				
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.00		102	70-130				
Tetrachloroethylene	11.5	1.0	µg/L	10.00		115	70-130				
Toluene	11.6	1.0	µg/L	10.00		116	70-130				
1,2,3-Trichlorobenzene	12.4	5.0	µg/L	10.00		124	70-130				
1,2,4-Trichlorobenzene	11.7	1.0	µg/L	10.00		117	70-130				
1,1,1-Trichloroethane	11.8	1.0	µg/L	10.00		118	70-130				
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.00		112	70-130				
Trichloroethylene	11.4	1.0	µg/L	10.00		114	70-130				
Trichlorofluoromethane (Freon 11)	11.8	2.0	µg/L	10.00		118	70-130			V-20	
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)	11.8	1.0	µg/L	10.00		118	70-130				
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.00		110	70-130				
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.00		114	70-130				
Vinyl Chloride	11.4	2.0	µg/L	10.00		114	40-160				†
m+p Xylene	23.2	2.0	µg/L	20.00		116	70-130				
o-Xylene	10.2	1.0	µg/L	10.00		102	70-130				
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.00		103	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.00		102	70-130				
LCS Dup (B390494-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24							
Acetone	87.4	50	µg/L	100.0		87.4	70-160	9.52	25		†
tert-Amyl Alcohol (TAA)	105	5.0	µg/L	100.0		105	70-130	10.3	25		
tert-Amyl Ethyl Ether (TAEE)	9.78	0.50	µg/L	10.00		97.8	70-130	7.86	25		
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.00		103	70-130	5.12	25		
Benzene	11.1	1.0	µg/L	10.00		111	70-130	3.02	25		
Bromochloromethane	11.2	1.0	µg/L	10.00		112	70-130	1.50	25		
Bromodichloromethane	11.0	0.50	µg/L	10.00		110	70-130	2.42	25		
Bromoform	11.6	1.0	µg/L	10.00		116	70-130	0.00	25		
Bromomethane	10.6	2.0	µg/L	10.00		106	40-160	11.8	25		†
2-Butanone (MEK)	89.8	20	µg/L	100.0		89.8	40-160	7.54	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 B390494 - SW-846 5030B											
LCS Dup (B390494-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24							
tert-Butyl Alcohol (TBA)	103	20	µg/L	100.0		103	40-160	8.30	25		†
n-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	10.9	25		
sec-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	6.33	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	1.45	25		
tert-Butyl Ethyl Ether (TBEE)	10.5	0.50	µg/L	10.00		105	70-130	1.33	25		
Carbon Disulfide	112	5.0	µg/L	100.0		112	70-130	0.440	25		
Carbon Tetrachloride	11.9	5.0	µg/L	10.00		119	70-130	1.34	25		
Chlorobenzene	10.4	1.0	µg/L	10.00		104	70-130	9.32	25		
Chlorodibromomethane	10.7	0.50	µg/L	10.00		107	70-130	7.75	25		
Chloroethane	9.93	2.0	µg/L	10.00		99.3	70-130	0.101	25		
Chloroform	10.7	2.0	µg/L	10.00		107	70-130	1.03	25		
Chloromethane	9.52	2.0	µg/L	10.00		95.2	40-160	3.61	25		†
Cyclohexane	10.7	5.0	µg/L	10.00		107	70-130	3.85	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.80	5.0	µg/L	10.00		88.0	70-130	17.1	25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.00		105	70-130	6.26	25		
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130	7.74	25		
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	7.41	25		
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130	5.35	25		
Dichlorodifluoromethane (Freon 12)	11.8	2.0	µg/L	10.00		118	40-160	4.86	25	V-20	†
1,1-Dichloroethane	11.2	1.0	µg/L	10.00		112	70-130	2.12	25		
1,2-Dichloroethane	9.74	1.0	µg/L	10.00		97.4	70-130	3.23	25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	3.07	25		
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130	4.40	25		
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	2.82	25		
1,2-Dichloropropane	10.5	1.0	µg/L	10.00		105	70-130	4.85	25		
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130	11.1	25		
trans-1,3-Dichloropropene	9.86	0.50	µg/L	10.00		98.6	70-130	12.5	25		
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.00		104	70-130	3.32	25		
Ethanol	110	50	µg/L	100.0		110	40-160	1.31	25		
Ethylbenzene	11.5	1.0	µg/L	10.00		115	70-130	3.44	25		
2-Hexanone (MBK)	86.6	10	µg/L	100.0		86.6	70-160	**29.4**	* 25	R-05	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00		101	70-130	13.5	25		
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.00		105	70-130	7.23	25		
Methyl Acetate	10.8	1.0	µg/L	10.00		108	70-130	3.02	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.00		102	70-130	5.69	25		
Methyl Cyclohexane	9.92	1.0	µg/L	10.00		99.2	70-130	8.86	25		
Methylene Chloride	11.0	5.0	µg/L	10.00		110	70-130	1.53	25		
4-Methyl-2-pentanone (MIBK)	89.7	10	µg/L	100.0		89.7	70-160	23.8	25		†
Naphthalene	10.2	2.0	µg/L	10.00		102	40-130	9.92	25		†
n-Propylbenzene	10.5	1.0	µg/L	10.00		105	70-130	10.4	25		
Styrene	10.6	1.0	µg/L	10.00		106	70-130	8.08	25		
1,1,2,2-Tetrachloroethane	9.91	0.50	µg/L	10.00		99.1	70-130	2.79	25		
Tetrachloroethylene	11.2	1.0	µg/L	10.00		112	70-130	2.29	25		
Toluene	10.4	1.0	µg/L	10.00		104	70-130	11.0	25		
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.00		115	70-130	7.46	25		
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	6.72	25		
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.00		115	70-130	2.49	25		
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.00		101	70-130	10.4	25		
Trichloroethylene	11.1	1.0	µg/L	10.00		111	70-130	2.59	25		
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.00		114	70-130	3.19	25	V-20	
1,2,3-Trichloropropane	9.76	2.0	µg/L	10.00		97.6	70-130	10.9	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 B390494 - SW-846 5030B										
LCS Dup (B390494-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.00		113	70-130	4.32	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130	6.94	25	
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.00		102	70-130	10.9	25	
Vinyl Chloride	11.2	2.0	µg/L	10.00		112	40-160	2.21	25	†
m+p Xylene	23.3	2.0	µg/L	20.00		117	70-130	0.344	25	
o-Xylene	10.2	1.0	µg/L	10.00		102	70-130	0.785	25	
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200	0.00		
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.00		103	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*23.2*		µg/L	25.00		93.0	70-130			
Batch B390710 - SW-846 5035										
Blank (B390710-BLK1)				Prepared & Analyzed: 10/29/24						
Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	1.0	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.25	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
Cyclohexane	ND	0.10	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							

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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 B390710 - SW-846 5035										
Blank (B390710-BLK1)				Prepared & Analyzed: 10/29/24						
Ethanol	ND	10	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl Acetate	ND	0.50	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methyl Cyclohexane	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0245*		mg/Kg wet	0.02500		98.0	70-130			
Surrogate: Toluene-d8	*0.0254*		mg/Kg wet	0.02500		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0240*		mg/Kg wet	0.02500		96.1	70-130			
LCS (B390710-BS1)				Prepared & Analyzed: 10/29/24						
Acetone	4.41	2.5	mg/Kg wet	5.000		88.1	70-160			†
tert-Amyl Alcohol (TAA)	5.31	1.0	mg/Kg wet	5.000		106	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.424	0.10	mg/Kg wet	0.5000		84.9	70-130			
tert-Amyl Methyl Ether (TAME)	0.484	0.025	mg/Kg wet	0.5000		96.8	70-130			
Benzene	0.542	0.050	mg/Kg wet	0.5000		108	70-130			
Bromochloromethane	0.558	0.050	mg/Kg wet	0.5000		112	70-130			
Bromodichloromethane	0.532	0.050	mg/Kg wet	0.5000		106	70-130			
Bromoform	0.567	0.050	mg/Kg wet	0.5000		113	70-130			
Bromomethane	0.510	0.10	mg/Kg wet	0.5000		102	40-130			†
2-Butanone (MEK)	4.26	1.0	mg/Kg wet	5.000		85.3	70-160			†
tert-Butyl Alcohol (TBA)	5.33	1.0	mg/Kg wet	5.000		107	40-130			†
n-Butylbenzene	0.522	0.050	mg/Kg wet	0.5000		104	70-130			
sec-Butylbenzene	0.499	0.050	mg/Kg wet	0.5000		99.8	70-130			
tert-Butylbenzene	0.520	0.050	mg/Kg wet	0.5000		104	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.509	0.025	mg/Kg wet	0.5000		102	70-130			
Carbon Disulfide	4.92	0.25	mg/Kg wet	5.000		98.4	70-130			
Carbon Tetrachloride	0.553	0.050	mg/Kg wet	0.5000		111	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 B390710 - SW-846 5035											
LCS (B390710-BS1)				Prepared & Analyzed: 10/29/24							
Chlorobenzene	0.576	0.050	mg/Kg wet	0.5000		115	70-130				
Chlorodibromomethane	0.506	0.025	mg/Kg wet	0.5000		101	70-130				
Chloroethane	0.450	0.10	mg/Kg wet	0.5000		90.1	70-130				
Chloroform	0.510	0.10	mg/Kg wet	0.5000		102	70-130				
Chloromethane	0.450	0.10	mg/Kg wet	0.5000		90.1	70-130				
Cyclohexane	0.502	0.10	mg/Kg wet	0.5000		100	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.502	0.25	mg/Kg wet	0.5000		100	70-130				
1,2-Dibromoethane (EDB)	0.498	0.025	mg/Kg wet	0.5000		99.7	70-130				
1,2-Dichlorobenzene	0.554	0.050	mg/Kg wet	0.5000		111	70-130				
1,3-Dichlorobenzene	0.534	0.050	mg/Kg wet	0.5000		107	70-130				
1,4-Dichlorobenzene	0.528	0.050	mg/Kg wet	0.5000		106	70-130				
Dichlorodifluoromethane (Freon 12)	0.502	0.10	mg/Kg wet	0.5000		100	40-160				†
1,1-Dichloroethane	0.542	0.050	mg/Kg wet	0.5000		108	70-130				
1,2-Dichloroethane	0.500	0.050	mg/Kg wet	0.5000		100	70-130				
1,1-Dichloroethylene	0.454	0.050	mg/Kg wet	0.5000		90.9	70-130				
cis-1,2-Dichloroethylene	0.545	0.050	mg/Kg wet	0.5000		109	70-130				
trans-1,2-Dichloroethylene	0.532	0.050	mg/Kg wet	0.5000		106	70-130				
1,2-Dichloropropane	0.454	0.050	mg/Kg wet	0.5000		90.8	70-130				
cis-1,3-Dichloropropene	0.472	0.025	mg/Kg wet	0.5000		94.5	70-130				
trans-1,3-Dichloropropene	0.457	0.025	mg/Kg wet	0.5000		91.4	70-130				
Diisopropyl Ether (DIPE)	0.506	0.025	mg/Kg wet	0.5000		101	70-130				
Ethanol	5.94	10	mg/Kg wet	5.000		119	40-160			J	
Ethylbenzene	0.563	0.050	mg/Kg wet	0.5000		113	70-130				
2-Hexanone (MBK)	4.35	0.50	mg/Kg wet	5.000		87.1	70-160				†
Isopropylbenzene (Cumene)	0.565	0.050	mg/Kg wet	0.5000		113	70-130				
p-Isopropyltoluene (p-Cymene)	0.511	0.050	mg/Kg wet	0.5000		102	70-130				
Methyl Acetate	0.514	0.50	mg/Kg wet	0.5000		103	70-130				
Methyl tert-Butyl Ether (MTBE)	0.512	0.050	mg/Kg wet	0.5000		102	70-130				
Methyl Cyclohexane	0.434	0.050	mg/Kg wet	0.5000		86.9	70-130				
Methylene Chloride	0.546	0.25	mg/Kg wet	0.5000		109	40-160				†
4-Methyl-2-pentanone (MIBK)	4.36	0.50	mg/Kg wet	5.000		87.2	70-160				†
Naphthalene	0.596	0.10	mg/Kg wet	0.5000		119	40-130				†
n-Propylbenzene	0.559	0.050	mg/Kg wet	0.5000		112	70-130				
Styrene	0.582	0.050	mg/Kg wet	0.5000		116	70-130				
1,1,2,2-Tetrachloroethane	0.586	0.025	mg/Kg wet	0.5000		117	70-130				
Tetrachloroethylene	0.509	0.050	mg/Kg wet	0.5000		102	70-130				
Toluene	0.478	0.050	mg/Kg wet	0.5000		95.5	70-130				
1,2,3-Trichlorobenzene	0.639	0.25	mg/Kg wet	0.5000		128	70-130			V-20	
1,2,4-Trichlorobenzene	0.604	0.050	mg/Kg wet	0.5000		121	70-130			V-20	
1,1,1-Trichloroethane	0.540	0.050	mg/Kg wet	0.5000		108	70-130				
1,1,2-Trichloroethane	0.492	0.050	mg/Kg wet	0.5000		98.4	70-130				
Trichloroethylene	0.516	0.050	mg/Kg wet	0.5000		103	70-130				
Trichlorofluoromethane (Freon 11)	0.524	0.10	mg/Kg wet	0.5000		105	70-130				
1,2,3-Trichloropropane	0.574	0.10	mg/Kg wet	0.5000		115	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.538	0.050	mg/Kg wet	0.5000		108	70-130				
1,2,4-Trimethylbenzene	0.514	0.050	mg/Kg wet	0.5000		103	70-130				
1,3,5-Trimethylbenzene	0.562	0.050	mg/Kg wet	0.5000		112	70-130				
Vinyl Chloride	0.508	0.10	mg/Kg wet	0.5000		102	40-130				†
m+p Xylene	1.14	0.10	mg/Kg wet	1.000		114	70-130				
o-Xylene	0.578	0.050	mg/Kg wet	0.5000		116	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0244*		mg/Kg wet	0.02500		97.5	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 B390710 - SW-846 5035											
LCS (B390710-BS1)				Prepared & Analyzed: 10/29/24							
Surrogate: Toluene-d8	*0.0222*		mg/Kg wet	0.02500		88.8	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0262*		mg/Kg wet	0.02500		105	70-130				
LCS Dup (B390710-BSD1)				Prepared & Analyzed: 10/29/24							
Acetone	4.31	2.5	mg/Kg wet	5.000		86.2	70-160	2.27	25		†
tert-Amyl Alcohol (TAA)	5.08	1.0	mg/Kg wet	5.000		102	70-130	4.41	25		
tert-Amyl Ethyl Ether (TAEE)	0.514	0.10	mg/Kg wet	0.5000		103	70-130	19.0	25		
tert-Amyl Methyl Ether (TAME)	0.522	0.025	mg/Kg wet	0.5000		104	70-130	7.55	25		
Benzene	0.560	0.050	mg/Kg wet	0.5000		112	70-130	3.45	25		
Bromochloromethane	0.571	0.050	mg/Kg wet	0.5000		114	70-130	2.21	25		
Bromodichloromethane	0.546	0.050	mg/Kg wet	0.5000		109	70-130	2.78	25		
Bromoform	0.557	0.050	mg/Kg wet	0.5000		111	70-130	1.78	25		
Bromomethane	0.536	0.10	mg/Kg wet	0.5000		107	40-130	4.88	25		†
2-Butanone (MEK)	4.41	1.0	mg/Kg wet	5.000		88.2	70-160	3.42	25		†
tert-Butyl Alcohol (TBA)	5.10	1.0	mg/Kg wet	5.000		102	40-130	4.32	25		†
n-Butylbenzene	0.532	0.050	mg/Kg wet	0.5000		106	70-130	1.90	25		
sec-Butylbenzene	0.534	0.050	mg/Kg wet	0.5000		107	70-130	6.68	25		
tert-Butylbenzene	0.531	0.050	mg/Kg wet	0.5000		106	70-160	2.09	25		†
tert-Butyl Ethyl Ether (TBEE)	0.508	0.025	mg/Kg wet	0.5000		102	70-130	0.295	25		
Carbon Disulfide	5.03	0.25	mg/Kg wet	5.000		101	70-130	2.29	25		
Carbon Tetrachloride	0.566	0.050	mg/Kg wet	0.5000		113	70-130	2.41	25		
Chlorobenzene	0.571	0.050	mg/Kg wet	0.5000		114	70-130	0.872	25		
Chlorodibromomethane	0.536	0.025	mg/Kg wet	0.5000		107	70-130	5.86	25		
Chloroethane	0.464	0.10	mg/Kg wet	0.5000		92.8	70-130	2.95	25		
Chloroform	0.510	0.10	mg/Kg wet	0.5000		102	70-130	0.0980	25		
Chloromethane	0.445	0.10	mg/Kg wet	0.5000		89.0	70-130	1.23	25		
Cyclohexane	0.518	0.10	mg/Kg wet	0.5000		104	70-130	3.14	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.444	0.25	mg/Kg wet	0.5000		88.8	70-130	12.2	25		
1,2-Dibromoethane (EDB)	0.548	0.025	mg/Kg wet	0.5000		110	70-130	9.37	25		
1,2-Dichlorobenzene	0.562	0.050	mg/Kg wet	0.5000		112	70-130	1.43	25		
1,3-Dichlorobenzene	0.547	0.050	mg/Kg wet	0.5000		109	70-130	2.50	25		
1,4-Dichlorobenzene	0.550	0.050	mg/Kg wet	0.5000		110	70-130	3.90	25		
Dichlorodifluoromethane (Freon 12)	0.517	0.10	mg/Kg wet	0.5000		103	40-160	3.04	25		†
1,1-Dichloroethane	0.552	0.050	mg/Kg wet	0.5000		110	70-130	2.01	25		
1,2-Dichloroethane	0.495	0.050	mg/Kg wet	0.5000		99.0	70-130	1.01	25		
1,1-Dichloroethylene	0.514	0.050	mg/Kg wet	0.5000		103	70-130	12.4	25		
cis-1,2-Dichloroethylene	0.558	0.050	mg/Kg wet	0.5000		112	70-130	2.27	25		
trans-1,2-Dichloroethylene	0.546	0.050	mg/Kg wet	0.5000		109	70-130	2.59	25		
1,2-Dichloropropane	0.542	0.050	mg/Kg wet	0.5000		108	70-130	17.6	25		
cis-1,3-Dichloropropene	0.544	0.025	mg/Kg wet	0.5000		109	70-130	14.0	25		
trans-1,3-Dichloropropene	0.511	0.025	mg/Kg wet	0.5000		102	70-130	11.2	25		
Diisopropyl Ether (DIPE)	0.511	0.025	mg/Kg wet	0.5000		102	70-130	0.983	25		
Ethanol	5.96	10	mg/Kg wet	5.000		119	40-160	0.319	25	J	
Ethylbenzene	0.560	0.050	mg/Kg wet	0.5000		112	70-130	0.445	25		
2-Hexanone (MBK)	5.00	0.50	mg/Kg wet	5.000		100	70-160	13.9	25		†
Isopropylbenzene (Cumene)	0.566	0.050	mg/Kg wet	0.5000		113	70-130	0.177	25		
p-Isopropyltoluene (p-Cymene)	0.518	0.050	mg/Kg wet	0.5000		104	70-130	1.36	25		
Methyl Acetate	0.536	0.50	mg/Kg wet	0.5000		107	70-130	4.10	25		
Methyl tert-Butyl Ether (MTBE)	0.515	0.050	mg/Kg wet	0.5000		103	70-130	0.682	25		
Methyl Cyclohexane	0.494	0.050	mg/Kg wet	0.5000		98.9	70-130	12.9	25		
Methylene Chloride	0.566	0.25	mg/Kg wet	0.5000		113	40-160	3.60	25		†
4-Methyl-2-pentanone (MIBK)	5.55	0.50	mg/Kg wet	5.000		111	70-160	23.9	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 B390710 - SW-846 5035											
LCS Dup (B390710-BSD1)				Prepared & Analyzed: 10/29/24							
Naphthalene	0.514	0.10	mg/Kg wet	0.5000		103	40-130	14.6	25		†
n-Propylbenzene	0.578	0.050	mg/Kg wet	0.5000		116	70-130	3.26	25		
Styrene	0.562	0.050	mg/Kg wet	0.5000		112	70-130	3.67	25		
1,1,2,2-Tetrachloroethane	0.579	0.025	mg/Kg wet	0.5000		116	70-130	1.20	25		
Tetrachloroethylene	0.510	0.050	mg/Kg wet	0.5000		102	70-130	0.0982	25		
Toluene	0.521	0.050	mg/Kg wet	0.5000		104	70-130	8.71	25		
1,2,3-Trichlorobenzene	0.562	0.25	mg/Kg wet	0.5000		112	70-130	12.7	25	V-20	
1,2,4-Trichlorobenzene	0.536	0.050	mg/Kg wet	0.5000		107	70-130	12.1	25	V-20	
1,1,1-Trichloroethane	0.554	0.050	mg/Kg wet	0.5000		111	70-130	2.74	25		
1,1,2-Trichloroethane	0.542	0.050	mg/Kg wet	0.5000		108	70-130	9.67	25		
Trichloroethylene	0.554	0.050	mg/Kg wet	0.5000		111	70-130	7.29	25		
Trichlorofluoromethane (Freon 11)	0.503	0.10	mg/Kg wet	0.5000		101	70-130	3.99	25		
1,2,3-Trichloropropane	0.555	0.10	mg/Kg wet	0.5000		111	70-130	3.45	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.534	0.050	mg/Kg wet	0.5000		107	70-130	0.746	25		
1,2,4-Trimethylbenzene	0.526	0.050	mg/Kg wet	0.5000		105	70-130	2.12	25		
1,3,5-Trimethylbenzene	0.560	0.050	mg/Kg wet	0.5000		112	70-130	0.535	25		
Vinyl Chloride	0.498	0.10	mg/Kg wet	0.5000		99.6	40-130	2.09	25		†
m+p Xylene	1.11	0.10	mg/Kg wet	1.000		111	70-130	2.93	25		
o-Xylene	0.568	0.050	mg/Kg wet	0.5000		114	70-130	1.75	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0240*		mg/Kg wet	0.02500		96.2	70-130				
Surrogate: Toluene-d8	*0.0240*		mg/Kg wet	0.02500		96.0	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0256*		mg/Kg wet	0.02500		102	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 B390568 - SW-846 3510C										
Blank (B390568-BLK1)				Prepared: 10/26/24 Analyzed: 10/30/24						
2,3,4,6-Tetrachlorophenol	ND	2.0	µg/L							
Atrazine	ND	2.0	µg/L							
Benzaldehyde	ND	1.0	µg/L							
Biphenyl	ND	2.0	µg/L							
Caprolactam	ND	1.0	µg/L							L-04, V-06
Acenaphthene	ND	0.50	µg/L							
Acenaphthylene	ND	0.50	µg/L							
Acetophenone	ND	1.0	µg/L							
Aniline	ND	2.0	µg/L							
Anthracene	ND	0.50	µg/L							
Benzo(a)anthracene	ND	0.50	µg/L							
Benzo(a)pyrene	ND	0.50	µg/L							
Benzo(b)fluoranthene	ND	0.50	µg/L							
Benzo(g,h,i)perylene	ND	0.50	µg/L							
Benzo(k)fluoranthene	ND	0.50	µg/L							
Bis(2-chloroethoxy)methane	ND	1.0	µg/L							
Bis(2-chloroethyl)ether	ND	1.0	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	1.0	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	1.0	µg/L							
4-Bromophenylphenylether	ND	1.0	µg/L							
Butylbenzylphthalate	ND	1.0	µg/L							
Carbazole	ND	1.0	µg/L							
4-Chloroaniline	ND	1.0	µg/L							
4-Chloro-3-methylphenol	ND	1.0	µg/L							
2-Chloronaphthalene	ND	1.0	µg/L							
2-Chlorophenol	ND	1.0	µg/L							
4-Chlorophenylphenylether	ND	1.0	µg/L							
Chrysene	ND	0.50	µg/L							
Dibenz(a,h)anthracene	ND	0.50	µg/L							V-04
Dibenzofuran	ND	0.50	µg/L							
Di-n-butylphthalate	ND	1.0	µg/L							
3,3-Dichlorobenzidine	ND	1.0	µg/L							
2,4-Dichlorophenol	ND	1.0	µg/L							
Diethylphthalate	ND	1.0	µg/L							
2,4-Dimethylphenol	ND	1.0	µg/L							
Dimethylphthalate	ND	1.0	µg/L							
4,6-Dinitro-2-methylphenol	ND	2.0	µg/L							
2,4-Dinitrophenol	ND	1.0	µg/L							V-04
2,4-Dinitrotoluene	ND	1.0	µg/L							
2,6-Dinitrotoluene	ND	1.0	µg/L							
Di-n-octylphthalate	ND	1.0	µg/L							V-04
Fluoranthene	ND	0.50	µg/L							
Fluorene	ND	0.50	µg/L							
Hexachlorobenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
Hexachlorocyclopentadiene	ND	1.0	µg/L							
Hexachloroethane	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	0.50	µg/L							V-04
Isophorone	ND	1.0	µg/L							
1-Methylnaphthalene	ND	0.50	µg/L							
2-Methylnaphthalene	ND	0.50	µg/L							
2-Methylphenol	ND	1.0	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 B390568 - SW-846 3510C											
Blank (B390568-BLK1)				Prepared: 10/26/24 Analyzed: 10/30/24							
3/4-Methylphenol	ND	1.0	µg/L								
Naphthalene	ND	0.50	µg/L								
2-Nitroaniline	ND	1.0	µg/L								
3-Nitroaniline	ND	1.0	µg/L								
4-Nitroaniline	ND	1.0	µg/L								
Nitrobenzene	ND	1.0	µg/L								
2-Nitrophenol	ND	1.0	µg/L								
4-Nitrophenol	ND	1.0	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	1.0	µg/L								
N-Nitrosodi-n-propylamine	ND	1.0	µg/L								
Pentachlorophenol	ND	1.0	µg/L								
Phenanthrene	ND	0.50	µg/L								
Phenol	ND	1.0	µg/L								
Pyrene	ND	0.50	µg/L								
Pyridine	ND	2.0	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	1.0	µg/L								
2,4,5-Trichlorophenol	ND	1.0	µg/L								
2,4,6-Trichlorophenol	ND	1.0	µg/L								
Surrogate: 2-Fluorophenol	*23.0*		µg/L	40.00		57.6		15-110			
Surrogate: Phenol-d6	*15.6*		µg/L	40.00		38.9		15-110			
Surrogate: Nitrobenzene-d5	*16.5*		µg/L	20.00		82.7		30-130			
Surrogate: 2-Fluorobiphenyl	*15.2*		µg/L	20.00		75.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*39.6*		µg/L	40.00		99.0		15-110			
Surrogate: p-Terphenyl-d14	*17.9*		µg/L	20.00		89.7		30-130			
LCS (B390568-BS1)				Prepared: 10/26/24 Analyzed: 10/30/24							
2,3,4,6-Tetrachlorophenol	8.72	2.0	µg/L	10.00		87.2		40-140			
Atrazine	11.5	2.0	µg/L	10.00		115		40-140			
Benzaldehyde	9.75	1.0	µg/L	10.00		97.5		40-140			
Biphenyl	9.28	2.0	µg/L	10.00		92.8		40-140			
Caprolactam	3.14	1.0	µg/L	10.00		**31.4**	*	40-140			L-04, V-06
Acenaphthene	7.62	0.50	µg/L	10.00		76.2		40-140			
Acenaphthylene	8.00	0.50	µg/L	10.00		80.0		40-140			
Acetophenone	9.34	1.0	µg/L	10.00		93.4		40-140			
Aniline	6.01	2.0	µg/L	10.00		60.1		40-140			
Anthracene	8.02	0.50	µg/L	10.00		80.2		40-140			
Benzo(a)anthracene	7.97	0.50	µg/L	10.00		79.7		40-140			
Benzo(a)pyrene	7.97	0.50	µg/L	10.00		79.7		40-140			
Benzo(b)fluoranthene	8.23	0.50	µg/L	10.00		82.3		40-140			
Benzo(g,h,i)perylene	8.49	0.50	µg/L	10.00		84.9		40-140			
Benzo(k)fluoranthene	8.21	0.50	µg/L	10.00		82.1		40-140			
Bis(2-chloroethoxy)methane	8.08	1.0	µg/L	10.00		80.8		40-140			
Bis(2-chloroethyl)ether	7.78	1.0	µg/L	10.00		77.8		40-140			
2,2'-oxybis(1-Chloropropane)	8.15	1.0	µg/L	10.00		81.5		40-140			
Bis(2-Ethylhexyl)phthalate	7.75	1.0	µg/L	10.00		77.5		40-140			
4-Bromophenylphenylether	7.61	1.0	µg/L	10.00		76.1		40-140			
Butylbenzylphthalate	8.20	1.0	µg/L	10.00		82.0		40-140			
Carbazole	8.08	1.0	µg/L	10.00		80.8		40-140			
4-Chloroaniline	7.86	1.0	µg/L	10.00		78.6		40-140			
4-Chloro-3-methylphenol	8.12	1.0	µg/L	10.00		81.2		30-130			
2-Chloronaphthalene	6.44	1.0	µg/L	10.00		64.4		40-140			
2-Chlorophenol	7.12	1.0	µg/L	10.00		71.2		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 B390568 - SW-846 3510C												
LCS (B390568-BS1)				Prepared: 10/26/24 Analyzed: 10/30/24								
4-Chlorophenylphenylether	7.87	1.0	µg/L	10.00		78.7		40-140				
Chrysene	7.72	0.50	µg/L	10.00		77.2		40-140				
Dibenz(a,h)anthracene	8.27	0.50	µg/L	10.00		82.7		40-140			V-04	
Dibenzofuran	8.09	0.50	µg/L	10.00		80.9		40-140				
Di-n-butylphthalate	7.60	1.0	µg/L	10.00		76.0		40-140				
3,3-Dichlorobenzidine	3.96	1.0	µg/L	10.00		**39.6**	*	40-140			L-07	
2,4-Dichlorophenol	7.66	1.0	µg/L	10.00		76.6		30-130				
Diethylphthalate	7.82	1.0	µg/L	10.00		78.2		40-140				
2,4-Dimethylphenol	7.81	1.0	µg/L	10.00		78.1		30-130				
Dimethylphthalate	8.11	1.0	µg/L	10.00		81.1		40-140				
4,6-Dinitro-2-methylphenol	8.02	2.0	µg/L	10.00		80.2		30-130				
2,4-Dinitrophenol	6.89	1.0	µg/L	10.00		68.9		30-130			V-04	
2,4-Dinitrotoluene	8.16	1.0	µg/L	10.00		81.6		40-140				
2,6-Dinitrotoluene	8.38	1.0	µg/L	10.00		83.8		40-140				
Di-n-octylphthalate	7.63	1.0	µg/L	10.00		76.3		40-140			V-04	
Fluoranthene	8.14	0.50	µg/L	10.00		81.4		40-140				
Fluorene	8.06	0.50	µg/L	10.00		80.6		40-140				
Hexachlorobenzene	8.18	1.0	µg/L	10.00		81.8		40-140				
Hexachlorobutadiene	5.73	1.0	µg/L	10.00		57.3		40-140				
Hexachlorocyclopentadiene	6.96	1.0	µg/L	10.00		69.6		30-140				†
Hexachloroethane	4.75	1.0	µg/L	10.00		47.5		40-140				
Indeno(1,2,3-cd)pyrene	8.58	0.50	µg/L	10.00		85.8		40-140			V-04	
Isophorone	8.52	1.0	µg/L	10.00		85.2		40-140				
1-Methylnaphthalene	7.00	0.50	µg/L	10.00		70.0		40-140				
2-Methylnaphthalene	6.69	0.50	µg/L	10.00		66.9		40-140				
2-Methylphenol	6.87	1.0	µg/L	10.00		68.7		30-130				
3/4-Methylphenol	6.62	1.0	µg/L	10.00		66.2		30-130				
Naphthalene	6.66	0.50	µg/L	10.00		66.6		40-140				
2-Nitroaniline	9.98	1.0	µg/L	10.00		99.8		40-140				
3-Nitroaniline	8.33	1.0	µg/L	10.00		83.3		40-140				
4-Nitroaniline	8.04	1.0	µg/L	10.00		80.4		40-140				
Nitrobenzene	7.64	1.0	µg/L	10.00		76.4		40-140				
2-Nitrophenol	7.38	1.0	µg/L	10.00		73.8		30-130				
4-Nitrophenol	4.71	1.0	µg/L	10.00		47.1		10-130				†
N-Nitrosodiphenylamine/Diphenylamine	7.50	1.0	µg/L	10.00		75.0		40-140				
N-Nitrosodi-n-propylamine	7.47	1.0	µg/L	10.00		74.7		40-140				
Pentachlorophenol	7.37	1.0	µg/L	10.00		73.7		30-130				
Phenanthrene	7.85	0.50	µg/L	10.00		78.5		40-140				
Phenol	3.94	1.0	µg/L	10.00		39.4		20-130				†
Pyrene	8.12	0.50	µg/L	10.00		81.2		40-140				
Pyridine	1.89	2.0	µg/L	10.00		18.9		10-140			V-34, J	†
1,2,4,5-Tetrachlorobenzene	8.91	1.0	µg/L	10.00		89.1		40-140				
2,4,5-Trichlorophenol	8.22	1.0	µg/L	10.00		82.2		30-130				
2,4,6-Trichlorophenol	7.76	1.0	µg/L	10.00		77.6		30-130				
Surrogate: 2-Fluorophenol	*24.1*		µg/L	40.00		60.4		15-110				
Surrogate: Phenol-d6	*17.9*		µg/L	40.00		44.8		15-110				
Surrogate: Nitrobenzene-d5	*16.6*		µg/L	20.00		83.0		30-130				
Surrogate: 2-Fluorobiphenyl	*16.4*		µg/L	20.00		81.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*39.3*		µg/L	40.00		98.3		15-110				
Surrogate: p-Terphenyl-d14	*17.7*		µg/L	20.00		88.3		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 B390568 - SW-846 3510C												
LCS Dup (B390568-BSD1)				Prepared: 10/26/24 Analyzed: 10/30/24								
2,3,4,6-Tetrachlorophenol	9.44	2.0	µg/L	10.00		94.4		40-140	8.01	20		
Atrazine	12.4	2.0	µg/L	10.00		124		40-140	7.19	20		
Benzaldehyde	10.5	1.0	µg/L	10.00		105		40-140	7.43	20		
Biphenyl	9.94	2.0	µg/L	10.00		99.4		40-140	6.87	20		
Caprolactam	3.53	1.0	µg/L	10.00		**35.3**	*	40-140	11.8	20	L-04, V-06	
Acenaphthene	8.27	0.50	µg/L	10.00		82.7		40-140	8.19	20		
Acenaphthylene	8.55	0.50	µg/L	10.00		85.5		40-140	6.58	20		
Acetophenone	10.3	1.0	µg/L	10.00		103		40-140	9.93	20		
Aniline	7.04	2.0	µg/L	10.00		70.4		40-140	15.8	50		‡
Anthracene	8.82	0.50	µg/L	10.00		88.2		40-140	9.55	20		
Benzo(a)anthracene	8.61	0.50	µg/L	10.00		86.1		40-140	7.78	20		
Benzo(a)pyrene	8.81	0.50	µg/L	10.00		88.1		40-140	10.0	20		
Benzo(b)fluoranthene	8.84	0.50	µg/L	10.00		88.4		40-140	7.11	20		
Benzo(g,h,i)perylene	9.73	0.50	µg/L	10.00		97.3		40-140	13.5	20		
Benzo(k)fluoranthene	8.77	0.50	µg/L	10.00		87.7		40-140	6.55	20		
Bis(2-chloroethoxy)methane	8.54	1.0	µg/L	10.00		85.4		40-140	5.43	20		
Bis(2-chloroethyl)ether	8.40	1.0	µg/L	10.00		84.0		40-140	7.79	20		
2,2'-oxybis(1-Chloropropane)	8.63	1.0	µg/L	10.00		86.3		40-140	5.71	20		
Bis(2-Ethylhexyl)phthalate	8.46	1.0	µg/L	10.00		84.6		40-140	8.82	20		
4-Bromophenylphenylether	8.43	1.0	µg/L	10.00		84.3		40-140	10.2	20		
Butylbenzylphthalate	8.89	1.0	µg/L	10.00		88.9		40-140	8.03	20		
Carbazole	8.82	1.0	µg/L	10.00		88.2		40-140	8.72	20		
4-Chloroaniline	8.41	1.0	µg/L	10.00		84.1		40-140	6.71	20		
4-Chloro-3-methylphenol	8.71	1.0	µg/L	10.00		87.1		30-130	7.00	20		
2-Chloronaphthalene	7.67	1.0	µg/L	10.00		76.7		40-140	17.4	20		
2-Chlorophenol	7.50	1.0	µg/L	10.00		75.0		30-130	5.23	20		
4-Chlorophenylphenylether	8.45	1.0	µg/L	10.00		84.5		40-140	7.15	20		
Chrysene	8.43	0.50	µg/L	10.00		84.3		40-140	8.79	20		
Dibenz(a,h)anthracene	9.22	0.50	µg/L	10.00		92.2		40-140	10.9	20	V-04	
Dibenzofuran	8.70	0.50	µg/L	10.00		87.0		40-140	7.27	20		
Di-n-butylphthalate	8.41	1.0	µg/L	10.00		84.1		40-140	10.1	20		
3,3-Dichlorobenzidine	4.39	1.0	µg/L	10.00		43.9		40-140	10.3	20		
2,4-Dichlorophenol	8.28	1.0	µg/L	10.00		82.8		30-130	7.85	20		
Diethylphthalate	8.58	1.0	µg/L	10.00		85.8		40-140	9.33	20		
2,4-Dimethylphenol	8.33	1.0	µg/L	10.00		83.3		30-130	6.44	20		
Dimethylphthalate	8.60	1.0	µg/L	10.00		86.0		40-140	5.78	50		‡
4,6-Dinitro-2-methylphenol	8.26	2.0	µg/L	10.00		82.6		30-130	2.83	50		‡
2,4-Dinitrophenol	7.53	1.0	µg/L	10.00		75.3		30-130	8.79	50	V-04	‡
2,4-Dinitrotoluene	9.13	1.0	µg/L	10.00		91.3		40-140	11.2	20		
2,6-Dinitrotoluene	9.02	1.0	µg/L	10.00		90.2		40-140	7.42	20		
Di-n-octylphthalate	8.35	1.0	µg/L	10.00		83.5		40-140	8.98	20	V-04	
Fluoranthene	8.97	0.50	µg/L	10.00		89.7		40-140	9.60	20		
Fluorene	8.83	0.50	µg/L	10.00		88.3		40-140	9.14	20		
Hexachlorobenzene	8.75	1.0	µg/L	10.00		87.5		40-140	6.78	20		
Hexachlorobutadiene	5.81	1.0	µg/L	10.00		58.1		40-140	1.33	20		
Hexachlorocyclopentadiene	7.54	1.0	µg/L	10.00		75.4		30-140	7.98	50		† ‡
Hexachloroethane	4.87	1.0	µg/L	10.00		48.7		40-140	2.52	50		‡
Indeno(1,2,3-cd)pyrene	9.60	0.50	µg/L	10.00		96.0		40-140	11.3	50	V-04	‡
Isophorone	8.99	1.0	µg/L	10.00		89.9		40-140	5.34	20		
1-Methylnaphthalene	7.39	0.50	µg/L	10.00		73.9		40-140	5.36	20		
2-Methylnaphthalene	7.33	0.50	µg/L	10.00		73.3		40-140	9.18	20		
2-Methylphenol	7.52	1.0	µg/L	10.00		75.2		30-130	9.06	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 B390568 - SW-846 3510C											
LCS Dup (B390568-BSD1)				Prepared: 10/26/24 Analyzed: 10/30/24							
3/4-Methylphenol	7.23	1.0	µg/L	10.00		72.3	30-130	8.79	20		
Naphthalene	7.04	0.50	µg/L	10.00		70.4	40-140	5.42	20		
2-Nitroaniline	10.5	1.0	µg/L	10.00		105	40-140	5.28	20		
3-Nitroaniline	8.86	1.0	µg/L	10.00		88.6	40-140	6.19	20		
4-Nitroaniline	8.73	1.0	µg/L	10.00		87.3	40-140	8.26	20		
Nitrobenzene	8.17	1.0	µg/L	10.00		81.7	40-140	6.70	20		
2-Nitrophenol	8.06	1.0	µg/L	10.00		80.6	30-130	8.85	20		
4-Nitrophenol	4.91	1.0	µg/L	10.00		49.1	10-130	4.26	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	8.28	1.0	µg/L	10.00		82.8	40-140	9.85	20		
N-Nitrosodi-n-propylamine	7.98	1.0	µg/L	10.00		79.8	40-140	6.50	20		
Pentachlorophenol	8.09	1.0	µg/L	10.00		80.9	30-130	9.27	50		‡
Phenanthrene	8.50	0.50	µg/L	10.00		85.0	40-140	8.01	20		
Phenol	4.05	1.0	µg/L	10.00		40.5	20-130	2.55	20		†
Pyrene	8.81	0.50	µg/L	10.00		88.1	40-140	8.13	20		
Pyridine	2.13	2.0	µg/L	10.00		21.3	10-140	12.1	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	9.48	1.0	µg/L	10.00		94.8	40-140	6.21	20		
2,4,5-Trichlorophenol	8.32	1.0	µg/L	10.00		83.2	30-130	1.16	20		
2,4,6-Trichlorophenol	8.55	1.0	µg/L	10.00		85.5	30-130	9.59	50		‡
Surrogate: 2-Fluorophenol	*23.0*		µg/L	40.00		57.6	15-110				
Surrogate: Phenol-d6	*17.1*		µg/L	40.00		42.7	15-110				
Surrogate: Nitrobenzene-d5	*16.0*		µg/L	20.00		79.8	30-130				
Surrogate: 2-Fluorobiphenyl	*15.8*		µg/L	20.00		79.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*39.9*		µg/L	40.00		99.7	15-110				
Surrogate: p-Terphenyl-d14	*17.3*		µg/L	20.00		86.4	30-130				
Batch B390945 - SW-846 3546											
Blank (B390945-BLK1)				Prepared: 10/30/24 Analyzed: 11/01/24							
2,3,4,6-Tetrachlorophenol	ND	0.65	mg/Kg wet								
Atrazine	ND	0.65	mg/Kg wet								
Benzaldehyde	ND	0.33	mg/Kg wet							V-05	
Biphenyl	ND	0.65	mg/Kg wet								
Caprolactam	ND	0.33	mg/Kg wet								
Acenaphthene	ND	0.16	mg/Kg wet								
Acenaphthylene	ND	0.16	mg/Kg wet								
Acetophenone	ND	0.33	mg/Kg wet								
Aniline	ND	0.33	mg/Kg wet								
Anthracene	ND	0.16	mg/Kg wet								
Benzo(a)anthracene	ND	0.16	mg/Kg wet								
Benzo(a)pyrene	ND	0.16	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.16	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.16	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.16	mg/Kg wet								
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet								
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet								
2,2'-oxybis(1-Chloropropane)	ND	0.33	mg/Kg wet								
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet								
4-Bromophenylphenylether	ND	0.33	mg/Kg wet								
Butylbenzylphthalate	ND	0.33	mg/Kg wet								
Carbazole	ND	0.16	mg/Kg wet								
4-Chloroaniline	ND	0.64	mg/Kg wet								
4-Chloro-3-methylphenol	ND	0.64	mg/Kg wet								
2-Chloronaphthalene	ND	0.33	mg/Kg wet								

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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 B390945 - SW-846 3546										
Blank (B390945-BLK1)				Prepared: 10/30/24 Analyzed: 11/01/24						
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.16	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.16	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.16	mg/Kg wet							
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.64	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.16	mg/Kg wet							
Fluorene	ND	0.16	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.16	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.16	mg/Kg wet							
2-Methylnaphthalene	ND	0.16	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							
3/4-Methylphenol	ND	0.33	mg/Kg wet							
Naphthalene	ND	0.16	mg/Kg wet							
2-Nitroaniline	ND	0.33	mg/Kg wet							
3-Nitroaniline	ND	0.33	mg/Kg wet							
4-Nitroaniline	ND	0.33	mg/Kg wet							
Nitrobenzene	ND	0.33	mg/Kg wet							
2-Nitrophenol	ND	0.33	mg/Kg wet							
4-Nitrophenol	ND	0.64	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet							
Pentachlorophenol	ND	0.33	mg/Kg wet							
Phenanthrene	ND	0.16	mg/Kg wet							
Phenol	ND	0.33	mg/Kg wet							
Pyrene	ND	0.16	mg/Kg wet							
Pyridine	ND	0.33	mg/Kg wet							L-04, V-34
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet							
Surrogate: 2-Fluorophenol	*4.65*		mg/Kg wet	6.464		72.0	30-130			
Surrogate: Phenol-d6	*4.81*		mg/Kg wet	6.464		74.4	30-130			
Surrogate: Nitrobenzene-d5	*2.32*		mg/Kg wet	3.232		71.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.232		70.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.85*		mg/Kg wet	6.464		90.4	30-130			
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.232		77.7	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 B390945 - SW-846 3546											
LCS (B390945-BS1)				Prepared: 10/30/24 Analyzed: 11/01/24							
2,3,4,6-Tetrachlorophenol	1.28	0.65	mg/Kg wet	1.615		79.4	40-140				
Atrazine	1.30	0.65	mg/Kg wet	1.615		80.7	40-140				
Benzaldehyde	1.00	0.33	mg/Kg wet	1.615		62.0	40-140			V-05	
Biphenyl	1.16	0.65	mg/Kg wet	1.615		71.9	40-140				
Caprolactam	1.32	0.33	mg/Kg wet	1.615		81.7	40-140				
Acenaphthene	1.17	0.16	mg/Kg wet	1.615		72.7	40-140				
Acenaphthylene	1.23	0.16	mg/Kg wet	1.615		76.3	40-140				
Acetophenone	1.07	0.33	mg/Kg wet	1.615		66.3	40-140				
Aniline	1.16	0.33	mg/Kg wet	1.615		71.9	10-140				†
Anthracene	1.16	0.16	mg/Kg wet	1.615		72.1	40-140				
Benzo(a)anthracene	1.17	0.16	mg/Kg wet	1.615		72.5	40-140				
Benzo(a)pyrene	1.21	0.16	mg/Kg wet	1.615		74.7	40-140				
Benzo(b)fluoranthene	1.19	0.16	mg/Kg wet	1.615		73.5	40-140				
Benzo(g,h,i)perylene	1.31	0.16	mg/Kg wet	1.615		81.3	40-140				
Benzo(k)fluoranthene	1.25	0.16	mg/Kg wet	1.615		77.5	40-140				
Bis(2-chloroethoxy)methane	1.20	0.33	mg/Kg wet	1.615		74.0	40-140				
Bis(2-chloroethyl)ether	1.13	0.33	mg/Kg wet	1.615		70.1	40-140				
2,2'-oxybis(1-Chloropropane)	1.38	0.33	mg/Kg wet	1.615		85.7	40-140				
Bis(2-Ethylhexyl)phthalate	1.24	0.33	mg/Kg wet	1.615		76.8	40-140				
4-Bromophenylphenylether	1.26	0.33	mg/Kg wet	1.615		78.2	40-140				
Butylbenzylphthalate	1.20	0.33	mg/Kg wet	1.615		74.2	40-140				
Carbazole	1.18	0.16	mg/Kg wet	1.615		72.8	40-140				
4-Chloroaniline	1.03	0.64	mg/Kg wet	1.615		63.8	10-140				†
4-Chloro-3-methylphenol	1.22	0.64	mg/Kg wet	1.615		75.3	30-130				
2-Chloronaphthalene	1.04	0.33	mg/Kg wet	1.615		64.6	40-140				
2-Chlorophenol	1.09	0.33	mg/Kg wet	1.615		67.5	30-130				
4-Chlorophenylphenylether	1.26	0.33	mg/Kg wet	1.615		77.8	40-140				
Chrysene	1.14	0.16	mg/Kg wet	1.615		70.5	40-140				
Dibenz(a,h)anthracene	1.30	0.16	mg/Kg wet	1.615		80.8	40-140				
Dibenzofuran	1.23	0.33	mg/Kg wet	1.615		76.0	40-140				
Di-n-butylphthalate	1.16	0.33	mg/Kg wet	1.615		72.0	40-140				
3,3-Dichlorobenzidine	1.18	0.16	mg/Kg wet	1.615		73.0	20-140				†
2,4-Dichlorophenol	1.18	0.33	mg/Kg wet	1.615		73.2	30-130				
Diethylphthalate	1.22	0.33	mg/Kg wet	1.615		75.4	40-140				
2,4-Dimethylphenol	1.13	0.33	mg/Kg wet	1.615		69.7	30-130				
Dimethylphthalate	1.27	0.33	mg/Kg wet	1.615		78.5	40-140				
4,6-Dinitro-2-methylphenol	1.34	0.33	mg/Kg wet	1.615		82.9	30-130				
2,4-Dinitrophenol	1.36	0.64	mg/Kg wet	1.615		84.4	30-130				
2,4-Dinitrotoluene	1.43	0.33	mg/Kg wet	1.615		88.6	40-140				
2,6-Dinitrotoluene	1.39	0.33	mg/Kg wet	1.615		86.1	40-140				
Di-n-octylphthalate	1.20	0.33	mg/Kg wet	1.615		74.4	40-140				
Fluoranthene	1.16	0.16	mg/Kg wet	1.615		72.1	40-140				
Fluorene	1.19	0.16	mg/Kg wet	1.615		74.0	40-140				
Hexachlorobenzene	1.30	0.33	mg/Kg wet	1.615		80.3	40-140				
Hexachlorobutadiene	1.08	0.33	mg/Kg wet	1.615		67.0	40-140				
Hexachlorocyclopentadiene	1.20	0.33	mg/Kg wet	1.615		74.1	40-140				
Hexachloroethane	1.03	0.33	mg/Kg wet	1.615		64.1	40-140				
Indeno(1,2,3-cd)pyrene	1.37	0.16	mg/Kg wet	1.615		84.6	40-140				
Isophorone	1.19	0.33	mg/Kg wet	1.615		73.5	40-140				
1-Methylnaphthalene	1.14	0.16	mg/Kg wet	1.615		70.3	40-140				
2-Methylnaphthalene	1.10	0.16	mg/Kg wet	1.615		68.0	40-140				
2-Methylphenol	1.16	0.33	mg/Kg wet	1.615		72.1	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 B390945 - SW-846 3546												
LCS (B390945-BS1)				Prepared: 10/30/24 Analyzed: 11/01/24								
3/4-Methylphenol	1.25	0.33	mg/Kg wet	1.615		77.7		30-130				
Naphthalene	1.07	0.16	mg/Kg wet	1.615		66.3		40-140				
2-Nitroaniline	1.54	0.33	mg/Kg wet	1.615		95.2		40-140				
3-Nitroaniline	1.22	0.33	mg/Kg wet	1.615		75.5		30-140				†
4-Nitroaniline	1.34	0.33	mg/Kg wet	1.615		83.0		40-140				
Nitrobenzene	1.09	0.33	mg/Kg wet	1.615		67.6		40-140				
2-Nitrophenol	1.17	0.33	mg/Kg wet	1.615		72.7		30-130				
4-Nitrophenol	1.19	0.64	mg/Kg wet	1.615		73.8		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.22	0.33	mg/Kg wet	1.615		75.7		40-140				
N-Nitrosodi-n-propylamine	1.16	0.33	mg/Kg wet	1.615		71.8		40-140				
Pentachlorophenol	1.18	0.33	mg/Kg wet	1.615		73.4		30-130				
Phenanthrene	1.15	0.16	mg/Kg wet	1.615		71.4		40-140				
Phenol	1.18	0.33	mg/Kg wet	1.615		73.1		30-130				
Pyrene	1.17	0.16	mg/Kg wet	1.615		72.5		40-140				
Pyridine	0.390	0.33	mg/Kg wet	1.615		**24.2**	*	30-140			L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.05	0.33	mg/Kg wet	1.615		65.1		40-140				
2,4,5-Trichlorophenol	1.24	0.33	mg/Kg wet	1.615		77.0		30-130				
2,4,6-Trichlorophenol	1.22	0.33	mg/Kg wet	1.615		75.5		30-130				
Surrogate: 2-Fluorophenol	*4.63*		mg/Kg wet	6.460		71.6		30-130				
Surrogate: Phenol-d6	*4.91*		mg/Kg wet	6.460		76.0		30-130				
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.230		70.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.34*		mg/Kg wet	3.230		72.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.34*		mg/Kg wet	6.460		98.2		30-130				
Surrogate: p-Terphenyl-d14	*2.56*		mg/Kg wet	3.230		79.4		30-130				
LCS Dup (B390945-BSD1)				Prepared: 10/30/24 Analyzed: 11/01/24								
2,3,4,6-Tetrachlorophenol	1.18	0.65	mg/Kg wet	1.614		72.8		40-140	8.71	20		
Atrazine	1.22	0.65	mg/Kg wet	1.614		75.5		40-140	6.72	30		
Benzaldehyde	1.02	0.33	mg/Kg wet	1.614		62.9		40-140	1.34	20	V-05	
Biphenyl	1.16	0.65	mg/Kg wet	1.614		72.0		40-140	0.107	20		
Caprolactam	1.23	0.33	mg/Kg wet	1.614		76.5		40-140	6.71	20		
Acenaphthene	1.15	0.16	mg/Kg wet	1.614		71.1		40-140	2.31	30		
Acenaphthylene	1.20	0.16	mg/Kg wet	1.614		74.4		40-140	2.58	30		
Acetophenone	1.09	0.33	mg/Kg wet	1.614		67.2		40-140	1.44	30		
Aniline	1.16	0.33	mg/Kg wet	1.614		71.9		10-140	0.0234	50		† ‡
Anthracene	1.14	0.16	mg/Kg wet	1.614		70.6		40-140	2.19	30		
Benzo(a)anthracene	1.14	0.16	mg/Kg wet	1.614		70.5		40-140	2.89	30		
Benzo(a)pyrene	1.17	0.16	mg/Kg wet	1.614		72.7		40-140	2.85	30		
Benzo(b)fluoranthene	1.13	0.16	mg/Kg wet	1.614		70.1		40-140	4.77	30		
Benzo(g,h,i)perylene	1.32	0.16	mg/Kg wet	1.614		81.7		40-140	0.507	30		
Benzo(k)fluoranthene	1.19	0.16	mg/Kg wet	1.614		73.7		40-140	5.08	30		
Bis(2-chloroethoxy)methane	1.19	0.33	mg/Kg wet	1.614		73.4		40-140	0.873	30		
Bis(2-chloroethyl)ether	1.14	0.33	mg/Kg wet	1.614		70.4		40-140	0.309	30		
2,2'-oxybis(1-Chloropropane)	1.37	0.33	mg/Kg wet	1.614		84.6		40-140	1.32	30		
Bis(2-Ethylhexyl)phthalate	1.19	0.33	mg/Kg wet	1.614		73.4		40-140	4.53	30		
4-Bromophenylphenylether	1.22	0.33	mg/Kg wet	1.614		75.7		40-140	3.31	30		
Butylbenzylphthalate	1.16	0.33	mg/Kg wet	1.614		71.9		40-140	3.24	30		
Carbazole	1.15	0.16	mg/Kg wet	1.614		71.5		40-140	1.89	30		
4-Chloroaniline	1.01	0.64	mg/Kg wet	1.614		62.7		10-140	1.87	30		†
4-Chloro-3-methylphenol	1.15	0.64	mg/Kg wet	1.614		71.2		30-130	5.58	30		
2-Chloronaphthalene	1.02	0.33	mg/Kg wet	1.614		63.2		40-140	2.29	30		
2-Chlorophenol	1.10	0.33	mg/Kg wet	1.614		68.4		30-130	1.29	30		

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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 B390945 - SW-846 3546												
LCS Dup (B390945-BSD1)				Prepared: 10/30/24 Analyzed: 11/01/24								
4-Chlorophenylphenylether	1.19	0.33	mg/Kg wet	1.614		73.7		40-140	5.52	30		
Chrysene	1.12	0.16	mg/Kg wet	1.614		69.4		40-140	1.63	30		
Dibenz(a,h)anthracene	1.30	0.16	mg/Kg wet	1.614		80.5		40-140	0.404	30		
Dibenzofuran	1.18	0.33	mg/Kg wet	1.614		73.1		40-140	3.89	30		
Di-n-butylphthalate	1.15	0.33	mg/Kg wet	1.614		70.9		40-140	1.54	30		
3,3-Dichlorobenzidine	1.18	0.16	mg/Kg wet	1.614		73.3		20-140	0.405	50		† ‡
2,4-Dichlorophenol	1.15	0.33	mg/Kg wet	1.614		71.1		30-130	3.00	30		
Diethylphthalate	1.14	0.33	mg/Kg wet	1.614		70.6		40-140	6.66	30		
2,4-Dimethylphenol	1.09	0.33	mg/Kg wet	1.614		67.8		30-130	2.82	30		
Dimethylphthalate	1.20	0.33	mg/Kg wet	1.614		74.3		40-140	5.42	30		
4,6-Dinitro-2-methylphenol	1.28	0.33	mg/Kg wet	1.614		79.4		30-130	4.37	30		
2,4-Dinitrophenol	1.34	0.64	mg/Kg wet	1.614		82.8		30-130	2.04	30		
2,4-Dinitrotoluene	1.36	0.33	mg/Kg wet	1.614		84.2		40-140	5.12	30		
2,6-Dinitrotoluene	1.32	0.33	mg/Kg wet	1.614		82.1		40-140	4.84	30		
Di-n-octylphthalate	1.11	0.33	mg/Kg wet	1.614		69.0		40-140	7.57	30		
Fluoranthene	1.15	0.16	mg/Kg wet	1.614		70.9		40-140	1.60	30		
Fluorene	1.15	0.16	mg/Kg wet	1.614		71.2		40-140	3.83	30		
Hexachlorobenzene	1.30	0.33	mg/Kg wet	1.614		80.6		40-140	0.366	30		
Hexachlorobutadiene	1.06	0.33	mg/Kg wet	1.614		65.8		40-140	1.75	30		
Hexachlorocyclopentadiene	1.19	0.33	mg/Kg wet	1.614		73.8		40-140	0.438	30		
Hexachloroethane	1.03	0.33	mg/Kg wet	1.614		63.6		40-140	0.753	30		
Indeno(1,2,3-cd)pyrene	1.36	0.16	mg/Kg wet	1.614		84.4		40-140	0.316	30		
Isophorone	1.19	0.33	mg/Kg wet	1.614		73.5		40-140	0.0867	30		
1-Methylnaphthalene	1.11	0.16	mg/Kg wet	1.614		68.8		40-140	2.13	30		
2-Methylnaphthalene	1.08	0.16	mg/Kg wet	1.614		67.1		40-140	1.45	30		
2-Methylphenol	1.15	0.33	mg/Kg wet	1.614		71.2		30-130	1.37	30		
3/4-Methylphenol	1.25	0.33	mg/Kg wet	1.614		77.2		30-130	0.626	30		
Naphthalene	1.08	0.16	mg/Kg wet	1.614		66.6		40-140	0.479	30		
2-Nitroaniline	1.47	0.33	mg/Kg wet	1.614		90.9		40-140	4.57	30		
3-Nitroaniline	1.16	0.33	mg/Kg wet	1.614		71.7		30-140	5.25	30		†
4-Nitroaniline	1.27	0.33	mg/Kg wet	1.614		78.9		40-140	5.07	30		
Nitrobenzene	1.11	0.33	mg/Kg wet	1.614		68.6		40-140	1.41	30		
2-Nitrophenol	1.17	0.33	mg/Kg wet	1.614		72.6		30-130	0.170	30		
4-Nitrophenol	1.11	0.64	mg/Kg wet	1.614		69.0		30-130	6.73	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.20	0.33	mg/Kg wet	1.614		74.1		40-140	2.09	30		
N-Nitrosodi-n-propylamine	1.15	0.33	mg/Kg wet	1.614		71.5		40-140	0.451	30		
Pentachlorophenol	1.14	0.33	mg/Kg wet	1.614		70.9		30-130	3.41	30		
Phenanthrene	1.14	0.16	mg/Kg wet	1.614		70.5		40-140	1.22	30		
Phenol	1.19	0.33	mg/Kg wet	1.614		73.9		30-130	1.03	30		
Pyrene	1.13	0.16	mg/Kg wet	1.614		69.9		40-140	3.74	30		
Pyridine	0.409	0.33	mg/Kg wet	1.614		**25.4**	*	30-140	4.81	30	L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.05	0.33	mg/Kg wet	1.614		65.3		40-140	0.213	30		
2,4,5-Trichlorophenol	1.16	0.33	mg/Kg wet	1.614		72.1		30-130	6.53	30		
2,4,6-Trichlorophenol	1.16	0.33	mg/Kg wet	1.614		71.8		30-130	5.00	30		
Surrogate: 2-Fluorophenol	*4.63*		mg/Kg wet	6.458		71.7		30-130				
Surrogate: Phenol-d6	*4.93*		mg/Kg wet	6.458		76.3		30-130				
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.229		71.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.229		72.1		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.90*		mg/Kg wet	6.458		91.4		30-130				
Surrogate: p-Terphenyl-d14	*2.44*		mg/Kg wet	3.229		75.5		30-130				

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B390627 - SW-846 3510C												
Blank (B390627-BLK1)				Prepared: 10/28/24 Analyzed: 11/01/24								
1,4-Dioxane	0.57	0.20	µg/L									B
Surrogate: 1,4-Dioxane-d8	*2.55*		µg/L	10.00		25.5		15-110				
LCS (B390627-BS1)				Prepared: 10/28/24 Analyzed: 10/31/24								
1,4-Dioxane	11.2	0.20	µg/L	10.00		112		40-140				B
Surrogate: 1,4-Dioxane-d8	*2.99*		µg/L	10.00		29.9		15-110				
LCS Dup (B390627-BSD1)				Prepared: 10/28/24 Analyzed: 10/31/24								
1,4-Dioxane	12.1	0.20	µg/L	10.00		121		40-140	8.16		30	B
Surrogate: 1,4-Dioxane-d8	*2.21*		µg/L	10.00		22.1		15-110				
Batch B390901 - SW-846 3546												
Blank (B390901-BLK1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	ND	0.050	mg/Kg wet									R-05
Surrogate: 1,4-Dioxane-d8	*0.259*		mg/Kg wet	0.4978		52.1		15-110				
LCS (B390901-BS1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.507	0.050	mg/Kg wet	0.4963		102		40-140				R-05
Surrogate: 1,4-Dioxane-d8	*0.298*		mg/Kg wet	0.4963		60.0		15-110				
LCS Dup (B390901-BSD1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.830	0.050	mg/Kg wet	0.4965		**167**	*	40-140	**48.3**	*	30	L-07A
Surrogate: 1,4-Dioxane-d8	*0.210*		mg/Kg wet	0.4965		42.4		15-110				
Batch B391271 - SW-846 3510C												
Blank (B391271-BLK1)				Prepared: 11/04/24 Analyzed: 11/06/24								
1,4-Dioxane	ND	0.20	µg/L									
Surrogate: 1,4-Dioxane-d8	*2.97*		µg/L	10.00		29.7		15-110				
LCS (B391271-BS1)				Prepared: 11/04/24 Analyzed: 11/06/24								
1,4-Dioxane	10.3	0.20	µg/L	10.00		103		40-140				
Surrogate: 1,4-Dioxane-d8	*3.02*		µg/L	10.00		30.2		15-110				
LCS Dup (B391271-BSD1)				Prepared: 11/04/24 Analyzed: 11/06/24								
1,4-Dioxane	11.2	0.20	µg/L	10.00		112		40-140	8.32		30	
Surrogate: 1,4-Dioxane-d8	*2.80*		µg/L	10.00		28.0		15-110				
Batch B392039 - SW-846 3546												
Blank (B392039-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	ND	0.048	mg/Kg wet									
Surrogate: 1,4-Dioxane-d8	*0.174*		mg/Kg wet	0.4794		36.3		15-110				

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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 B392039 - SW-846 3546										
LCS (B392039-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24						
1,4-Dioxane	0.522	0.048	mg/Kg wet	0.4789		109	40-140			
Surrogate: 1,4-Dioxane-d8	*0.177*		mg/Kg wet	0.4789		37.0	15-110			
LCS Dup (B392039-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24						
1,4-Dioxane	0.532	0.048	mg/Kg wet	0.4794		111	40-140	1.91	30	
Surrogate: 1,4-Dioxane-d8	*0.165*		mg/Kg wet	0.4794		34.5	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 B392050 - Draft Method 1633										
Blank (B392050-BLK1)				Prepared: 11/15/24 Analyzed: 11/18/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							PF-17C
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*80.0*		ng/L	98.02		81.6	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633											
Blank (B392050-BLK1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Surrogate: 13C5-PFPeA	*36.6*		ng/L	49.01		74.6		35-150			
Surrogate: 13C5-PFHxA	*19.0*		ng/L	24.51		77.5		55-150			
Surrogate: 13C4-PFHpA	*20.2*		ng/L	24.51		82.2		55-150			
Surrogate: 13C8-PFOA	*18.1*		ng/L	24.51		73.9		60-140			
Surrogate: 13C9-PFNA	*9.62*		ng/L	12.25		78.5		55-140			
Surrogate: 13C6-PFDA	*10.1*		ng/L	12.25		82.8		50-140			
Surrogate: 13C7-PFUnA	*9.38*		ng/L	12.25		76.6		30-140			
Surrogate: 13C2-PFDoA	*8.69*		ng/L	12.25		70.9		10-150			
Surrogate: 13C2-PFTeDA	*7.75*		ng/L	12.25		63.3		10-130			
Surrogate: 13C3-PFBS	*19.8*		ng/L	24.51		81.0		55-150			
Surrogate: 13C3-PFHxS	*20.3*		ng/L	24.51		82.9		55-150			
Surrogate: 13C8-PFOS	*19.8*		ng/L	24.51		80.9		45-140			
Surrogate: 13C2-4:2FTS	*24.9*		ng/L	49.01		**50.8**	*	60-200			PF-17C
Surrogate: 13C2-6:2FTS	*26.5*		ng/L	49.01		**54.2**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*24.7*		ng/L	49.01		50.4		50-200			
Surrogate: 13C8-PFOSA	*19.5*		ng/L	24.51		79.7		30-130			
Surrogate: D3-NMeFOSA	*15.3*		ng/L	24.51		62.4		15-130			
Surrogate: D5-NEtFOSA	*16.3*		ng/L	24.51		66.6		10-130			
Surrogate: D3-NMeFOSAA	*47.0*		ng/L	49.01		95.9		45-200			
Surrogate: D5-NEtFOSAA	*42.5*		ng/L	49.01		86.7		10-200			
Surrogate: D7-NMeFOSE	*207*		ng/L	245.1		84.4		10-150			
Surrogate: D9-NEtFOSE	*195*		ng/L	245.1		79.7		10-150			
Surrogate: 13C3-HFPO-DA	*88.4*		ng/L	98.02		90.2		25-160			
LCS (B392050-BS1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Perfluorobutanoic acid (PFBA)	108	3.9	ng/L	94.21		115		58-148			
Perfluoropentanoic acid (PFPeA)	52.4	2.0	ng/L	47.10		111		54-152			
Perfluorohexanoic acid (PFHxA)	26.5	0.98	ng/L	23.55		113		55-152			
Perfluoroheptanoic acid (PFHpA)	27.3	0.98	ng/L	23.55		116		54-154			
Perfluorooctanoic acid (PFOA)	27.3	0.98	ng/L	23.55		116		52-161			
Perfluorononanoic acid (PFNA)	26.9	0.98	ng/L	23.55		114		59-149			
Perfluorodecanoic acid (PFDA)	25.4	0.98	ng/L	23.55		108		52-147			
Perfluoroundecanoic acid (PFUnA)	25.7	0.98	ng/L	23.55		109		48-159			
Perfluorododecanoic acid (PFDoA)	28.2	0.98	ng/L	23.55		120		64-142			
Perfluorotridecanoic acid (PFTrDA)	26.8	0.98	ng/L	23.55		114		49-148			
Perfluorotetradecanoic acid (PFTeDA)	28.2	0.98	ng/L	23.55		120		47-161			
Perfluorobutanesulfonic acid (PFBS)	24.0	0.98	ng/L	20.89		115		62-144			
Perfluoropentanesulfonic acid (PFPeS)	26.0	0.98	ng/L	22.16		117		59-151			
Perfluorohexanesulfonic acid (PFHxS)	25.4	0.98	ng/L	21.53		118		57-146			
Perfluoroheptanesulfonic acid (PFHpS)	26.9	0.98	ng/L	22.44		120		55-152			
Perfluorooctanesulfonic acid (PFOS)	25.0	0.98	ng/L	21.86		114		58-149			
Perfluorononanesulfonic acid (PFNS)	25.7	0.98	ng/L	22.66		113		52-148			
Perfluorodecanesulfonic acid (PFDS)	25.0	0.98	ng/L	22.73		110		51-147			
Perfluorododecanesulfonic acid (PFDoS)	24.1	0.98	ng/L	22.85		106		36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100	3.9	ng/L	88.32		114		67-146			PF-17C
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.2	3.9	ng/L	89.50		105		61-151			PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.9	3.9	ng/L	90.44		109		63-152			
Perfluorooctanesulfonamide (PFOSA)	26.6	0.98	ng/L	23.55		113		61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	25.9	0.98	ng/L	23.55		110		63-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633											
LCS (B392050-BS1)				Prepared: 11/15/24 Analyzed: 11/18/24							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.0	0.98	ng/L	23.55		106		65-139			
N-MeFOSAA (NMeFOSAA)	24.6	0.98	ng/L	23.55		105		58-144			
N-EtFOSAA (NEtFOSAA)	28.5	0.98	ng/L	23.55		121		59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	271	9.8	ng/L	235.5		115		71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	275	9.8	ng/L	235.5		117		69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	3.9	ng/L	94.21		109		63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	86.8	3.9	ng/L	89.02		97.5		68-146			
9Cl-PF3ONS (F53B Minor)	74.3	3.9	ng/L	88.08		84.3		56-156			
11Cl-PF3OUdS (F53B Major)	73.2	3.9	ng/L	89.02		82.3		46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	247	9.8	ng/L	235.5		105		62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1240	49	ng/L	1178		105		63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1090	49	ng/L	1178		92.6		50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	45.7	2.0	ng/L	41.92		109		56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	56.4	2.0	ng/L	47.10		120		51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	59.0	2.0	ng/L	47.10		125		55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	70.1	2.0	ng/L	47.10		149		48-161			
Surrogate: 13C4-PFBA	*77.4*		ng/L	98.13		78.9		10-130			
Surrogate: 13C5-PFPeA	*39.1*		ng/L	49.07		79.7		35-150			
Surrogate: 13C5-PFHxA	*18.4*		ng/L	24.53		75.0		55-150			
Surrogate: 13C4-PFHpA	*18.9*		ng/L	24.53		77.2		55-150			
Surrogate: 13C8-PFOA	*17.8*		ng/L	24.53		72.7		60-140			
Surrogate: 13C9-PFNA	*9.49*		ng/L	12.27		77.4		55-140			
Surrogate: 13C6-PFDA	*10.8*		ng/L	12.27		88.0		50-140			
Surrogate: 13C7-PFUnA	*9.31*		ng/L	12.27		75.9		30-140			
Surrogate: 13C2-PFDoA	*8.61*		ng/L	12.27		70.2		10-150			
Surrogate: 13C2-PFTeDA	*7.90*		ng/L	12.27		64.4		10-130			
Surrogate: 13C3-PFBS	*19.8*		ng/L	24.53		80.6		55-150			
Surrogate: 13C3-PFHxS	*18.6*		ng/L	24.53		75.8		55-150			
Surrogate: 13C8-PFOS	*19.3*		ng/L	24.53		78.5		45-140			
Surrogate: 13C2-4:2FTS	*26.7*		ng/L	49.07		**54.5**	*	60-200			PF-17C
Surrogate: 13C2-6:2FTS	*27.9*		ng/L	49.07		**56.8**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*26.9*		ng/L	49.07		54.8		50-200			
Surrogate: 13C8-PFOSA	*20.5*		ng/L	24.53		83.6		30-130			
Surrogate: D3-NMeFOSA	*17.7*		ng/L	24.53		72.1		15-130			
Surrogate: D5-NEtFOSA	*18.5*		ng/L	24.53		75.5		10-130			
Surrogate: D3-NMeFOSAA	*48.1*		ng/L	49.07		98.0		45-200			
Surrogate: D5-NEtFOSAA	*44.2*		ng/L	49.07		90.0		10-200			
Surrogate: D7-NMeFOSE	*216*		ng/L	245.3		88.0		10-150			
Surrogate: D9-NEtFOSE	*206*		ng/L	245.3		84.0		10-150			
Surrogate: 13C3-HFPO-DA	*85.1*		ng/L	98.13		86.7		25-160			
MRL Check (B392050-MRL1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Perfluorobutanoic acid (PFBA)	7.69	3.9	ng/L	7.825		98.3		44-157			
Perfluoropentanoic acid (PFPeA)	3.70	2.0	ng/L	3.912		94.5		57-148			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633										
MRL Check (B392050-MRL1)				Prepared: 11/15/24 Analyzed: 11/18/24						
Perfluorohexanoic acid (PFHxA)	2.03	0.98	ng/L	1.956		104	62-149			
Perfluoroheptanoic acid (PFHpA)	1.83	0.98	ng/L	1.956		93.8	56-150			
Perfluorooctanoic acid (PFOA)	2.00	0.98	ng/L	1.956		102	57-161			
Perfluorononanoic acid (PFNA)	1.98	0.98	ng/L	1.956		101	53-157			
Perfluorodecanoic acid (PFDA)	1.86	0.98	ng/L	1.956		94.9	43-158			
Perfluoroundecanoic acid (PFUnA)	1.72	0.98	ng/L	1.956		87.8	50-155			
Perfluorododecanoic acid (PFDoA)	2.01	0.98	ng/L	1.956		103	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.87	0.98	ng/L	1.956		95.8	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.03	0.98	ng/L	1.956		104	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.80	0.98	ng/L	1.735		104	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.89	0.98	ng/L	1.841		103	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.96	0.98	ng/L	1.788		110	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.74	0.98	ng/L	1.864		93.1	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.86	0.98	ng/L	1.815		102	43-162			
Perfluorononanesulfonic acid (PFNS)	1.76	0.98	ng/L	1.882		93.3	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.83	0.98	ng/L	1.888		97.1	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.82	0.98	ng/L	1.898		95.7	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.24	3.9	ng/L	7.336		98.7	52-158			PF-17C
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.36	3.9	ng/L	7.434		99.1	48-158			PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.89	3.9	ng/L	7.512		91.7	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.05	0.98	ng/L	1.956		105	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.86	0.98	ng/L	1.956		94.9	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.69	0.98	ng/L	1.956		86.1	49-156			
N-MeFOSAA (NMeFOSAA)	2.12	0.98	ng/L	1.956		109	32-160			
N-EtFOSAA (NEtFOSAA)	1.82	0.98	ng/L	1.956		92.9	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	18.6	9.8	ng/L	19.56		95.3	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.5	9.8	ng/L	19.56		99.9	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.57	3.9	ng/L	7.825		96.8	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.36	3.9	ng/L	7.395		86.0	61-148			
9Cl-PF3ONS (F53B Minor)	5.20	3.9	ng/L	7.316		71.1	44-167			
11Cl-PF3OUdS (F53B Major)	5.33	3.9	ng/L	7.395		72.1	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	20.2	9.8	ng/L	19.56		103	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	99.8	49	ng/L	97.81		102	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	86.4	49	ng/L	97.81		88.4	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.63	2.0	ng/L	3.482		104	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.27	2.0	ng/L	3.912		109	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.52	2.0	ng/L	3.912		116	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.39	2.0	ng/L	3.912		138	47-160			
Surrogate: 13C4-PFBA	*78.0*		ng/L	97.81		79.8	10-130			
Surrogate: 13C5-PFPeA	*40.1*		ng/L	48.91		82.0	35-150			
Surrogate: 13C5-PFHxA	*18.4*		ng/L	24.45		75.3	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633											
MRL Check (B392050-MRL1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Surrogate: 13C4-PFHpA	*19.6*		ng/L	24.45		80.2		55-150			
Surrogate: 13C8-PFOA	*18.3*		ng/L	24.45		74.8		60-140			
Surrogate: 13C9-PFNA	*9.88*		ng/L	12.23		80.8		55-140			
Surrogate: 13C6-PFDA	*10.5*		ng/L	12.23		85.9		50-140			
Surrogate: 13C7-PFUnA	*9.68*		ng/L	12.23		79.2		30-140			
Surrogate: 13C2-PFDoA	*9.17*		ng/L	12.23		75.0		10-150			
Surrogate: 13C2-PFTeDA	*7.87*		ng/L	12.23		64.4		10-130			
Surrogate: 13C3-PFBS	*20.5*		ng/L	24.45		83.8		55-150			
Surrogate: 13C3-PFHxS	*19.5*		ng/L	24.45		79.6		55-150			
Surrogate: 13C8-PFOS	*19.5*		ng/L	24.45		79.8		45-140			
Surrogate: 13C2-4:2FTS	*26.7*		ng/L	48.91		**54.6**	*	60-200			PF-17C
Surrogate: 13C2-6:2FTS	*27.3*		ng/L	48.91		**55.8**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*24.6*		ng/L	48.91		50.4		50-200			
Surrogate: 13C8-PFOSA	*19.8*		ng/L	24.45		80.8		30-130			
Surrogate: D3-NMeFOSA	*15.1*		ng/L	24.45		61.6		15-130			
Surrogate: D5-NEtFOSA	*16.0*		ng/L	24.45		65.4		10-130			
Surrogate: D3-NMeFOSAA	*47.9*		ng/L	48.91		98.0		45-200			
Surrogate: D5-NEtFOSAA	*42.8*		ng/L	48.91		87.5		10-200			
Surrogate: D7-NMeFOSE	*204*		ng/L	244.5		83.5		10-150			
Surrogate: D9-NEtFOSE	*194*		ng/L	244.5		79.3		10-150			
Surrogate: 13C3-HFPO-DA	*88.8*		ng/L	97.81		90.8		25-160			
Batch B392312 - Draft Method 1633											
Blank (B392312-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24							
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet								
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet								
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet								
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet								
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet								
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet								
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet								
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet								
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	µg/kg wet								
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet								
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet								
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet								
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet								
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet								
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet								
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet								
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet								
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet								
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet								
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet								
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet								

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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 B392312 - Draft Method 1633										
Blank (B392312-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.8	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.8	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*9.05*		µg/kg wet	9.758		92.8	10-130			
Surrogate: 13C5-PFPeA	*5.21*		µg/kg wet	4.879		107	35-150			
Surrogate: 13C5-PFHxA	*2.15*		µg/kg wet	2.440		88.0	55-150			
Surrogate: 13C4-PFHpA	*2.08*		µg/kg wet	2.440		85.1	55-150			
Surrogate: 13C8-PFOA	*2.17*		µg/kg wet	2.440		89.1	60-140			
Surrogate: 13C9-PFNA	*1.14*		µg/kg wet	1.220		93.7	55-140			
Surrogate: 13C6-PFDA	*1.12*		µg/kg wet	1.220		92.0	50-140			
Surrogate: 13C7-PFUnA	*1.09*		µg/kg wet	1.220		89.0	30-140			
Surrogate: 13C2-PFDoA	*1.11*		µg/kg wet	1.220		90.7	10-150			
Surrogate: 13C2-PFTeDA	*1.00*		µg/kg wet	1.220		82.0	10-130			
Surrogate: 13C3-PFBS	*2.41*		µg/kg wet	2.440		98.7	55-150			
Surrogate: 13C3-PFHxS	*2.28*		µg/kg wet	2.440		93.3	55-150			
Surrogate: 13C8-PFOS	*2.21*		µg/kg wet	2.440		90.6	45-140			
Surrogate: 13C2-4:2FTS	*3.51*		µg/kg wet	4.879		72.0	60-200			
Surrogate: 13C2-6:2FTS	*3.19*		µg/kg wet	4.879		65.5	60-200			
Surrogate: 13C2-8:2FTS	*3.06*		µg/kg wet	4.879		62.6	50-200			
Surrogate: 13C8-PFOSA	*2.36*		µg/kg wet	2.440		96.9	30-130			
Surrogate: D3-NMeFOSA	*1.85*		µg/kg wet	2.440		75.9	15-130			
Surrogate: D5-NEtFOSA	*1.66*		µg/kg wet	2.440		68.0	10-130			
Surrogate: D3-NMeFOSAA	*5.69*		µg/kg wet	4.879		117	45-200			
Surrogate: D5-NEtFOSAA	*5.47*		µg/kg wet	4.879		112	10-200			
Surrogate: D7-NMeFOSE	*24.5*		µg/kg wet	24.40		100	10-150			
Surrogate: D9-NEtFOSE	*25.4*		µg/kg wet	24.40		104	10-150			
Surrogate: 13C3-HFPO-DA	*9.69*		µg/kg wet	9.758		99.3	25-160			
LCS (B392312-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Perfluorobutanoic acid (PFBA)	8.71	0.77	µg/kg wet	9.295		93.7	58-148			
Perfluoropentanoic acid (PFPeA)	4.30	0.39	µg/kg wet	4.648		92.6	54-152			

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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 B392312 - Draft Method 1633										
LCS (B392312-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Perfluorohexanoic acid (PFHxA)	2.14	0.19	µg/kg wet	2.324		91.9	55-152			
Perfluoroheptanoic acid (PFHpA)	2.15	0.19	µg/kg wet	2.324		92.5	54-154			
Perfluorooctanoic acid (PFOA)	2.21	0.19	µg/kg wet	2.324		95.0	52-161			
Perfluorononanoic acid (PFNA)	2.24	0.19	µg/kg wet	2.324		96.5	59-149			
Perfluorodecanoic acid (PFDA)	2.22	0.19	µg/kg wet	2.324		95.5	52-147			
Perfluoroundecanoic acid (PFUnA)	2.09	0.19	µg/kg wet	2.324		90.0	48-159			
Perfluorododecanoic acid (PFDoA)	2.21	0.19	µg/kg wet	2.324		95.2	64-142			
Perfluorotridecanoic acid (PFTrDA)	2.04	0.19	µg/kg wet	2.324		87.7	49-148			
Perfluorotetradecanoic acid (PFTeDA)	2.22	0.19	µg/kg wet	2.324		95.4	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.91	0.19	µg/kg wet	2.061		92.7	62-144			
Perfluoropentanesulfonic acid (PFPeS)	2.03	0.19	µg/kg wet	2.187		92.8	59-151			
Perfluorohexanesulfonic acid (PFHxS)	1.89	0.19	µg/kg wet	2.124		89.0	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	2.09	0.19	µg/kg wet	2.215		94.6	55-152			
Perfluorooctanesulfonic acid (PFOS)	1.92	0.19	µg/kg wet	2.156		89.1	58-149			
Perfluorononanesulfonic acid (PFNS)	2.15	0.19	µg/kg wet	2.235		96.0	52-148			
Perfluorodecanesulfonic acid (PFDS)	2.10	0.19	µg/kg wet	2.242		93.8	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.91	0.19	µg/kg wet	2.254		84.6	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.10	0.77	µg/kg wet	8.714		92.9	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.05	0.77	µg/kg wet	8.830		91.2	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.89	0.77	µg/kg wet	8.923		88.4	63-152			
Perfluorooctanesulfonamide (PFOSA)	2.17	0.19	µg/kg wet	2.324		93.2	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.23	0.19	µg/kg wet	2.324		96.0	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.16	0.19	µg/kg wet	2.324		92.9	65-139			
N-MeFOSAA (NMeFOSAA)	2.01	0.19	µg/kg wet	2.324		86.3	58-144			
N-EtFOSAA (NEtFOSAA)	2.24	0.19	µg/kg wet	2.324		96.3	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	22.8	1.9	µg/kg wet	23.24		98.3	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.1	1.9	µg/kg wet	23.24		99.6	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.89	0.77	µg/kg wet	9.295		106	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.71	0.77	µg/kg wet	8.784		99.1	68-146			
9Cl-PF3ONS (F53B Minor)	7.56	0.77	µg/kg wet	8.691		87.0	56-156			
11Cl-PF3OUdS (F53B Major)	7.31	0.77	µg/kg wet	8.784		83.2	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	19.1	1.9	µg/kg wet	23.24		82.3	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	107	9.7	µg/kg wet	116.2		92.2	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	96.3	9.7	µg/kg wet	116.2		82.9	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.56	0.39	µg/kg wet	4.136		110	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.64	0.39	µg/kg wet	4.648		99.8	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.28	0.39	µg/kg wet	4.648		114	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.89	0.39	µg/kg wet	4.648		148	48-161			
Surrogate: 13C4-PFBA	*8.12*		µg/kg wet	9.682		83.9	10-130			
Surrogate: 13C5-PFPeA	*4.70*		µg/kg wet	4.841		97.0	35-150			
Surrogate: 13C5-PFHxA	*1.99*		µg/kg wet	2.421		82.2	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392312 - Draft Method 1633										
LCS (B392312-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Surrogate: 13C4-PFHpA	*1.86*		µg/kg wet	2.421		76.7	55-150			
Surrogate: 13C8-PFOA	*1.90*		µg/kg wet	2.421		78.3	60-140			
Surrogate: 13C9-PFNA	*1.01*		µg/kg wet	1.210		83.7	55-140			
Surrogate: 13C6-PFDA	*1.06*		µg/kg wet	1.210		87.4	50-140			
Surrogate: 13C7-PFUnA	*0.939*		µg/kg wet	1.210		77.6	30-140			
Surrogate: 13C2-PFDoA	*0.882*		µg/kg wet	1.210		72.9	10-150			
Surrogate: 13C2-PFTeDA	*0.811*		µg/kg wet	1.210		67.0	10-130			
Surrogate: 13C3-PFBS	*2.18*		µg/kg wet	2.421		90.0	55-150			
Surrogate: 13C3-PFHxS	*2.03*		µg/kg wet	2.421		83.9	55-150			
Surrogate: 13C8-PFOS	*2.06*		µg/kg wet	2.421		85.2	45-140			
Surrogate: 13C2-4:2FTS	*3.18*		µg/kg wet	4.841		65.7	60-200			
Surrogate: 13C2-6:2FTS	*3.24*		µg/kg wet	4.841		66.8	60-200			
Surrogate: 13C2-8:2FTS	*2.72*		µg/kg wet	4.841		56.2	50-200			
Surrogate: 13C8-PFOSA	*2.15*		µg/kg wet	2.421		88.8	30-130			
Surrogate: D3-NMeFOSA	*1.27*		µg/kg wet	2.421		52.4	15-130			
Surrogate: D5-NEtFOSA	*0.812*		µg/kg wet	2.421		33.6	10-130			
Surrogate: D3-NMeFOSAA	*5.41*		µg/kg wet	4.841		112	45-200			
Surrogate: D5-NEtFOSAA	*4.79*		µg/kg wet	4.841		98.9	10-200			
Surrogate: D7-NMeFOSE	*20.4*		µg/kg wet	24.21		84.1	10-150			
Surrogate: D9-NEtFOSE	*19.7*		µg/kg wet	24.21		81.6	10-150			
Surrogate: 13C3-HFPO-DA	*8.24*		µg/kg wet	9.682		85.1	25-160			
MRL Check (B392312-MRL1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Perfluorobutanoic acid (PFBA)	0.858	0.77	µg/kg wet	0.7740		111	44-157			
Perfluoropentanoic acid (PFPeA)	0.403	0.39	µg/kg wet	0.3870		104	57-148			
Perfluorohexanoic acid (PFHxA)	0.215	0.19	µg/kg wet	0.1935		111	62-149			
Perfluoroheptanoic acid (PFHpA)	0.194	0.19	µg/kg wet	0.1935		100	56-150			
Perfluorooctanoic acid (PFOA)	0.216	0.19	µg/kg wet	0.1935		112	57-161			
Perfluorononanoic acid (PFNA)	0.212	0.19	µg/kg wet	0.1935		110	53-157			
Perfluorodecanoic acid (PFDA)	0.202	0.19	µg/kg wet	0.1935		104	43-158			
Perfluoroundecanoic acid (PFUnA)	0.195	0.19	µg/kg wet	0.1935		101	50-155			
Perfluorododecanoic acid (PFDoA)	0.214	0.19	µg/kg wet	0.1935		111	60-141			
Perfluorotridecanoic acid (PFTrDA)	0.180	0.19	µg/kg wet	0.1935		92.9	52-140			J
Perfluorotetradecanoic acid (PFTeDA)	0.208	0.19	µg/kg wet	0.1935		108	52-156			
Perfluorobutanesulfonic acid (PFBS)	0.179	0.19	µg/kg wet	0.1716		104	63-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.208	0.19	µg/kg wet	0.1821		114	58-144			
Perfluorohexanesulfonic acid (PFHxS)	0.195	0.19	µg/kg wet	0.1769		110	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	0.226	0.19	µg/kg wet	0.1844		123	51-150			
Perfluorooctanesulfonic acid (PFOS)	0.195	0.19	µg/kg wet	0.1796		109	43-162			
Perfluorononanesulfonic acid (PFNS)	0.213	0.19	µg/kg wet	0.1861		115	46-151			
Perfluorodecanesulfonic acid (PFDS)	0.192	0.19	µg/kg wet	0.1867		103	50-144			J
Perfluorododecanesulfonic acid (PFDoS)	0.182	0.19	µg/kg wet	0.1877		97.1	30-138			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.759	0.77	µg/kg wet	0.7256		105	52-158			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.820	0.77	µg/kg wet	0.7353		112	48-158			PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.721	0.77	µg/kg wet	0.7430		97.0	46-165			J
Perfluorooctanesulfonamide (PFOSA)	0.199	0.19	µg/kg wet	0.1935		103	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.208	0.19	µg/kg wet	0.1935		108	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.205	0.19	µg/kg wet	0.1935		106	49-156			
N-MeFOSAA (NMeFOSAA)	0.238	0.19	µg/kg wet	0.1935		123	32-160			

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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 B392312 - Draft Method 1633											
MRL Check (B392312-MRL1)				Prepared: 11/17/24 Analyzed: 11/18/24							
N-EtFOSAA (NEtFOSAA)	0.216	0.19	µg/kg wet	0.1935		112		51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.98	1.9	µg/kg wet	1.935		102		56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.98	1.9	µg/kg wet	1.935		102		60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.940	0.77	µg/kg wet	0.7740		121		58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.723	0.77	µg/kg wet	0.7314		98.9		61-148			J
9Cl-PF3ONS (F53B Minor)	0.615	0.77	µg/kg wet	0.7237		85.0		44-167			J
11Cl-PF3OUdS (F53B Major)	0.625	0.77	µg/kg wet	0.7314		85.4		36-158			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.71	1.9	µg/kg wet	1.935		88.6		32-161			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	9.43	9.7	µg/kg wet	9.675		97.5		39-156			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	8.32	9.7	µg/kg wet	9.675		85.9		36-149			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.384	0.39	µg/kg wet	0.3444		112		56-144			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.389	0.39	µg/kg wet	0.3870		100		48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.413	0.39	µg/kg wet	0.3870		107		49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.561	0.39	µg/kg wet	0.3870		145		47-160			
Surrogate: 13C4-PFBA	*7.73*		µg/kg wet	9.675		79.9		10-130			
Surrogate: 13C5-PFPeA	*4.47*		µg/kg wet	4.837		92.5		35-150			
Surrogate: 13C5-PFHxA	*1.80*		µg/kg wet	2.419		74.6		55-150			
Surrogate: 13C4-PFHpA	*1.77*		µg/kg wet	2.419		73.0		55-150			
Surrogate: 13C8-PFOA	*1.80*		µg/kg wet	2.419		74.6		60-140			
Surrogate: 13C9-PFNA	*0.970*		µg/kg wet	1.209		80.2		55-140			
Surrogate: 13C6-PFDA	*0.983*		µg/kg wet	1.209		81.3		50-140			
Surrogate: 13C7-PFUnA	*0.911*		µg/kg wet	1.209		75.3		30-140			
Surrogate: 13C2-PFDoA	*0.865*		µg/kg wet	1.209		71.5		10-150			
Surrogate: 13C2-PFTeDA	*0.786*		µg/kg wet	1.209		65.0		10-130			
Surrogate: 13C3-PFBS	*2.08*		µg/kg wet	2.419		85.8		55-150			
Surrogate: 13C3-PFHxS	*1.87*		µg/kg wet	2.419		77.4		55-150			
Surrogate: 13C8-PFOS	*1.91*		µg/kg wet	2.419		79.2		45-140			
Surrogate: 13C2-4:2FTS	*2.92*		µg/kg wet	4.837		60.5		60-200			
Surrogate: 13C2-6:2FTS	*2.88*		µg/kg wet	4.837		**59.6**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*2.46*		µg/kg wet	4.837		50.9		50-200			
Surrogate: 13C8-PFOSA	*1.98*		µg/kg wet	2.419		81.7		30-130			
Surrogate: D3-NMeFOSA	*1.48*		µg/kg wet	2.419		61.1		15-130			
Surrogate: D5-NEtFOSA	*1.24*		µg/kg wet	2.419		51.1		10-130			
Surrogate: D3-NMeFOSAA	*4.83*		µg/kg wet	4.837		99.8		45-200			
Surrogate: D5-NEtFOSAA	*4.43*		µg/kg wet	4.837		91.7		10-200			
Surrogate: D7-NMeFOSE	*19.7*		µg/kg wet	24.19		81.6		10-150			
Surrogate: D9-NEtFOSE	*21.6*		µg/kg wet	24.19		89.1		10-150			
Surrogate: 13C3-HFPO-DA	*7.99*		µg/kg wet	9.675		82.6		25-160			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390946 - SW-846 3546										
Blank (B390946-BLK1)				Prepared: 10/30/24 Analyzed: 11/07/24						
alpha-Chlordane	ND	0.0048	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0048	mg/Kg wet							
gamma-Chlordane	ND	0.0048	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0048	mg/Kg wet							
Aldrin	ND	0.0048	mg/Kg wet							
Aldrin [2C]	ND	0.0048	mg/Kg wet							
alpha-BHC	ND	0.0048	mg/Kg wet							
alpha-BHC [2C]	ND	0.0048	mg/Kg wet							
beta-BHC	ND	0.0048	mg/Kg wet							
beta-BHC [2C]	ND	0.0048	mg/Kg wet							
delta-BHC	ND	0.0048	mg/Kg wet							
delta-BHC [2C]	ND	0.0048	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0019	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0019	mg/Kg wet							
4,4'-DDD	ND	0.0038	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0038	mg/Kg wet							
4,4'-DDE	ND	0.0038	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0038	mg/Kg wet							
4,4'-DDT	ND	0.0038	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0038	mg/Kg wet							
Dieldrin	ND	0.0038	mg/Kg wet							
Dieldrin [2C]	ND	0.0038	mg/Kg wet							
Endosulfan I	ND	0.0048	mg/Kg wet							
Endosulfan I [2C]	ND	0.0048	mg/Kg wet							
Endosulfan II	ND	0.0077	mg/Kg wet							
Endosulfan II [2C]	ND	0.0077	mg/Kg wet							
Endosulfan Sulfate	ND	0.0077	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0077	mg/Kg wet							
Endrin	ND	0.0077	mg/Kg wet							
Endrin [2C]	ND	0.0077	mg/Kg wet							
Endrin Aldehyde	ND	0.0077	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0077	mg/Kg wet							
Endrin Ketone	ND	0.0077	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0077	mg/Kg wet							
Heptachlor	ND	0.0048	mg/Kg wet							
Heptachlor [2C]	ND	0.0048	mg/Kg wet							
Heptachlor Epoxide	ND	0.0048	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0048	mg/Kg wet							
Methoxychlor	ND	0.048	mg/Kg wet							
Methoxychlor [2C]	ND	0.048	mg/Kg wet							
Toxaphene	ND	0.096	mg/Kg wet							
Toxaphene [2C]	ND	0.096	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg wet	0.1923		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.1923		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.155*		mg/Kg wet	0.1923		80.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.153*		mg/Kg wet	0.1923		79.5	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390946 - SW-846 3546										
LCS (B390946-BS1)				Prepared: 10/30/24 Analyzed: 11/07/24						
alpha-Chlordane	0.091	0.0048	mg/Kg wet	0.09615		94.4	40-140			
alpha-Chlordane [2C]	0.091	0.0048	mg/Kg wet	0.09615		95.0	40-140			
gamma-Chlordane	0.091	0.0048	mg/Kg wet	0.09615		94.3	40-140			
gamma-Chlordane [2C]	0.089	0.0048	mg/Kg wet	0.09615		92.0	40-140			
Aldrin	0.089	0.0048	mg/Kg wet	0.09615		93.0	40-140			
Aldrin [2C]	0.084	0.0048	mg/Kg wet	0.09615		87.5	40-140			
alpha-BHC	0.090	0.0048	mg/Kg wet	0.09615		93.3	40-140			V-06
alpha-BHC [2C]	0.084	0.0048	mg/Kg wet	0.09615		87.1	40-140			V-06
beta-BHC	0.085	0.0048	mg/Kg wet	0.09615		88.3	40-140			
beta-BHC [2C]	0.081	0.0048	mg/Kg wet	0.09615		84.7	40-140			
delta-BHC	0.084	0.0048	mg/Kg wet	0.09615		87.2	40-140			V-06
delta-BHC [2C]	0.080	0.0048	mg/Kg wet	0.09615		83.7	40-140			V-06
gamma-BHC (Lindane)	0.086	0.0019	mg/Kg wet	0.09615		89.6	40-140			V-06
gamma-BHC (Lindane) [2C]	0.083	0.0019	mg/Kg wet	0.09615		86.0	40-140			V-06
4,4'-DDD	0.098	0.0038	mg/Kg wet	0.09615		102	40-140			V-06
4,4'-DDD [2C]	0.099	0.0038	mg/Kg wet	0.09615		103	40-140			V-06
4,4'-DDE	0.095	0.0038	mg/Kg wet	0.09615		98.5	40-140			
4,4'-DDE [2C]	0.094	0.0038	mg/Kg wet	0.09615		98.2	40-140			
4,4'-DDT	0.090	0.0038	mg/Kg wet	0.09615		94.1	40-140			
4,4'-DDT [2C]	0.085	0.0038	mg/Kg wet	0.09615		88.5	40-140			
Dieldrin	0.093	0.0038	mg/Kg wet	0.09615		97.1	40-140			
Dieldrin [2C]	0.093	0.0038	mg/Kg wet	0.09615		96.8	40-140			
Endosulfan I	0.089	0.0048	mg/Kg wet	0.09615		92.4	40-140			
Endosulfan I [2C]	0.087	0.0048	mg/Kg wet	0.09615		90.8	40-140			
Endosulfan II	0.087	0.0077	mg/Kg wet	0.09615		90.6	40-140			
Endosulfan II [2C]	0.090	0.0077	mg/Kg wet	0.09615		93.2	40-140			
Endosulfan Sulfate	0.084	0.0077	mg/Kg wet	0.09615		87.7	40-140			
Endosulfan Sulfate [2C]	0.085	0.0077	mg/Kg wet	0.09615		88.2	40-140			
Endrin	0.091	0.0077	mg/Kg wet	0.09615		94.7	40-140			
Endrin [2C]	0.088	0.0077	mg/Kg wet	0.09615		91.5	40-140			
Endrin Aldehyde	0.085	0.0077	mg/Kg wet	0.09615		88.0	40-140			
Endrin Aldehyde [2C]	0.087	0.0077	mg/Kg wet	0.09615		90.1	40-140			
Endrin Ketone	0.086	0.0077	mg/Kg wet	0.09615		89.2	40-140			
Endrin Ketone [2C]	0.086	0.0077	mg/Kg wet	0.09615		89.9	40-140			
Heptachlor	0.089	0.0048	mg/Kg wet	0.09615		92.8	40-140			
Heptachlor [2C]	0.086	0.0048	mg/Kg wet	0.09615		89.0	40-140			
Heptachlor Epoxide	0.089	0.0048	mg/Kg wet	0.09615		92.2	40-140			
Heptachlor Epoxide [2C]	0.085	0.0048	mg/Kg wet	0.09615		88.8	40-140			
Methoxychlor	0.081	0.048	mg/Kg wet	0.09615		84.7	40-140			
Methoxychlor [2C]	0.086	0.048	mg/Kg wet	0.09615		89.8	40-140			
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg wet	0.1923		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.205*		mg/Kg wet	0.1923		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.1923		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.1923		84.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390946 - SW-846 3546										
LCS Dup (B390946-BSD1)				Prepared: 10/30/24 Analyzed: 11/07/24						
alpha-Chlordane	0.086	0.0048	mg/Kg wet	0.09615		89.4	40-140	5.38	30	
alpha-Chlordane [2C]	0.088	0.0048	mg/Kg wet	0.09615		91.4	40-140	3.86	30	
gamma-Chlordane	0.087	0.0048	mg/Kg wet	0.09615		90.4	40-140	4.26	30	
gamma-Chlordane [2C]	0.085	0.0048	mg/Kg wet	0.09615		88.6	40-140	3.87	30	
Aldrin	0.078	0.0048	mg/Kg wet	0.09615		81.2	40-140	13.5	30	
Aldrin [2C]	0.076	0.0048	mg/Kg wet	0.09615		79.0	40-140	10.1	30	
alpha-BHC	0.068	0.0048	mg/Kg wet	0.09615		70.9	40-140	27.3	30	V-06
alpha-BHC [2C]	0.064	0.0048	mg/Kg wet	0.09615		66.7	40-140	26.5	30	V-06
beta-BHC	0.077	0.0048	mg/Kg wet	0.09615		80.4	40-140	9.33	30	
beta-BHC [2C]	0.077	0.0048	mg/Kg wet	0.09615		80.3	40-140	5.32	30	
delta-BHC	0.080	0.0048	mg/Kg wet	0.09615		83.2	40-140	4.61	30	V-06
delta-BHC [2C]	0.076	0.0048	mg/Kg wet	0.09615		79.3	40-140	5.32	30	V-06
gamma-BHC (Lindane)	0.070	0.0019	mg/Kg wet	0.09615		72.4	40-140	21.2	30	V-06
gamma-BHC (Lindane) [2C]	0.070	0.0019	mg/Kg wet	0.09615		72.7	40-140	16.8	30	V-06
4,4'-DDD	0.098	0.0038	mg/Kg wet	0.09615		101	40-140	0.538	30	V-06
4,4'-DDD [2C]	0.10	0.0038	mg/Kg wet	0.09615		104	40-140	0.397	30	V-06
4,4'-DDE	0.093	0.0038	mg/Kg wet	0.09615		96.8	40-140	1.71	30	
4,4'-DDE [2C]	0.094	0.0038	mg/Kg wet	0.09615		97.4	40-140	0.806	30	
4,4'-DDT	0.091	0.0038	mg/Kg wet	0.09615		94.6	40-140	0.544	30	
4,4'-DDT [2C]	0.085	0.0038	mg/Kg wet	0.09615		88.9	40-140	0.354	30	
Dieldrin	0.090	0.0038	mg/Kg wet	0.09615		93.2	40-140	4.02	30	
Dieldrin [2C]	0.091	0.0038	mg/Kg wet	0.09615		94.5	40-140	2.42	30	
Endosulfan I	0.085	0.0048	mg/Kg wet	0.09615		87.9	40-140	4.97	30	
Endosulfan I [2C]	0.084	0.0048	mg/Kg wet	0.09615		87.7	40-140	3.42	30	
Endosulfan II	0.086	0.0077	mg/Kg wet	0.09615		89.0	40-140	1.84	30	
Endosulfan II [2C]	0.089	0.0077	mg/Kg wet	0.09615		92.1	40-140	1.22	30	
Endosulfan Sulfate	0.083	0.0077	mg/Kg wet	0.09615		86.2	40-140	1.72	30	
Endosulfan Sulfate [2C]	0.083	0.0077	mg/Kg wet	0.09615		86.5	40-140	1.95	30	
Endrin	0.088	0.0077	mg/Kg wet	0.09615		91.5	40-140	3.43	30	
Endrin [2C]	0.087	0.0077	mg/Kg wet	0.09615		90.1	40-140	1.60	30	
Endrin Aldehyde	0.077	0.0077	mg/Kg wet	0.09615		79.9	40-140	9.58	30	
Endrin Aldehyde [2C]	0.087	0.0077	mg/Kg wet	0.09615		90.1	40-140	0.0921	30	
Endrin Ketone	0.086	0.0077	mg/Kg wet	0.09615		89.6	40-140	0.451	30	
Endrin Ketone [2C]	0.084	0.0077	mg/Kg wet	0.09615		87.4	40-140	2.83	30	
Heptachlor	0.075	0.0048	mg/Kg wet	0.09615		78.2	40-140	17.0	30	
Heptachlor [2C]	0.075	0.0048	mg/Kg wet	0.09615		78.3	40-140	12.9	30	
Heptachlor Epoxide	0.081	0.0048	mg/Kg wet	0.09615		84.7	40-140	8.49	30	
Heptachlor Epoxide [2C]	0.082	0.0048	mg/Kg wet	0.09615		85.5	40-140	3.76	30	
Methoxychlor	0.084	0.048	mg/Kg wet	0.09615		87.1	40-140	2.78	30	
Methoxychlor [2C]	0.087	0.048	mg/Kg wet	0.09615		90.7	40-140	0.913	30	
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.1923		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.1923		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.1923		83.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.1923		85.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391058 - SW-846 3546										
Blank (B391058-BLK1)				Prepared: 10/31/24 Analyzed: 11/04/24						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.1970		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.219*		mg/Kg wet	0.1970		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.1970		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.1970		99.1	30-150			
LCS (B391058-BS1)				Prepared: 10/31/24 Analyzed: 11/04/24						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.1967		83.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.1967		85.8	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.1967		96.7	40-140			
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.1967		105	40-140			
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.1967		93.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.224*		mg/Kg wet	0.1967		114	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.1967		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg wet	0.1967		102	30-150			
LCS Dup (B391058-BSD1)				Prepared: 10/31/24 Analyzed: 11/04/24						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.1978		84.4	40-140	0.590	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.1978		84.8	40-140	1.16	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.1978		96.5	40-140	0.225	30	
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.1978		104	40-140	0.760	30	
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg wet	0.1978		95.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.226*		mg/Kg wet	0.1978		114	30-150			
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg wet	0.1978		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.1978		101	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391581 - SW-846 3050B											
Blank (B391581-BLK1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	ND	16	mg/Kg wet								
Antimony	ND	1.6	mg/Kg wet								
Arsenic	ND	3.3	mg/Kg wet								
Barium	ND	1.6	mg/Kg wet								
Beryllium	ND	0.16	mg/Kg wet								
Cadmium	ND	0.33	mg/Kg wet								
Calcium	ND	16	mg/Kg wet								
Chromium	ND	0.65	mg/Kg wet								
Cobalt	ND	1.6	mg/Kg wet								
Copper	ND	1.3	mg/Kg wet								
Iron	ND	16	mg/Kg wet								
Lead	ND	0.49	mg/Kg wet								
Magnesium	ND	16	mg/Kg wet								
Manganese	ND	0.33	mg/Kg wet								
Selenium	ND	3.3	mg/Kg wet								
Sodium	ND	160	mg/Kg wet								
Thallium	ND	1.6	mg/Kg wet								
Vanadium	ND	0.65	mg/Kg wet								
Zinc	ND	0.65	mg/Kg wet								
Blank (B391581-BLK2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Nickel	ND	0.65	mg/Kg wet								
Potassium	ND	160	mg/Kg wet								
Silver	ND	0.33	mg/Kg wet								
LCS (B391581-BS1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5290	49	mg/Kg wet	5940		89.1		46.1-153.9			
Antimony	104	4.9	mg/Kg wet	121.0		86.2		2.1-200.8			
Arsenic	244	9.7	mg/Kg wet	242.0		101		81.8-118.6			
Barium	348	4.9	mg/Kg wet	295.0		118		81.7-118.3			
Beryllium	174	0.49	mg/Kg wet	160.0		109		82.5-117.5			
Cadmium	91.7	0.97	mg/Kg wet	84.30		109		82.2-117.8			
Calcium	5550	49	mg/Kg wet	5270		105		82.5-117.5			
Chromium	248	1.9	mg/Kg wet	213.0		117		81.2-119.2			
Cobalt	143	4.9	mg/Kg wet	137.0		105		83.2-117.5			
Copper	234	3.9	mg/Kg wet	195.0		**120**	*	83.1-116.9			L-07
Iron	6170	49	mg/Kg wet	6650		92.7		58.6-141.5			
Lead	187	1.5	mg/Kg wet	194.0		96.3		82-118.6			
Magnesium	1750	49	mg/Kg wet	1860		94.1		75.3-124.2			
Manganese	271	0.97	mg/Kg wet	264.0		103		80.7-118.9			L-07
Selenium	279	9.7	mg/Kg wet	272.0		103		80.1-119.5			
Sodium	420	490	mg/Kg wet	406.0		103		74.9-124.9			J
Thallium	117	4.9	mg/Kg wet	108.0		108		80-119.4			
Vanadium	193	1.9	mg/Kg wet	169.0		114		78.1-122.5			
Zinc	236	1.9	mg/Kg wet	236.0		100		80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391581 - SW-846 3050B											
LCS (B391581-BS2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Nickel	299	1.9	mg/Kg wet	298.0		100		82.2-117.8			
Potassium	2010	490	mg/Kg wet	2010		100		70.6-129.4			
Silver	81.7	0.97	mg/Kg wet	76.70		106		79.5-120.5			
LCS Dup (B391581-BSD1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5230	48	mg/Kg wet	5940		88.0		46.1-153.9	1.27	30	
Antimony	101	4.8	mg/Kg wet	121.0		83.2		2.1-200.8	3.53	30	
Arsenic	231	9.7	mg/Kg wet	242.0		95.5		81.8-118.6	5.40	30	
Barium	349	4.8	mg/Kg wet	295.0		118		81.7-118.3	0.411	20	
Beryllium	166	0.48	mg/Kg wet	160.0		104		82.5-117.5	4.53	30	
Cadmium	85.8	0.97	mg/Kg wet	84.30		102		82.2-117.8	6.61	20	
Calcium	5420	48	mg/Kg wet	5270		103		82.5-117.5	2.47	30	
Chromium	230	1.9	mg/Kg wet	213.0		108		81.2-119.2	7.53	30	
Cobalt	138	4.8	mg/Kg wet	137.0		101		83.2-117.5	3.36	20	
Copper	223	3.9	mg/Kg wet	195.0		114		83.1-116.9	4.78	30	L-07
Iron	6200	48	mg/Kg wet	6650		93.3		58.6-141.5	0.571	30	
Lead	189	1.4	mg/Kg wet	194.0		97.5		82-118.6	1.30	30	
Magnesium	1730	48	mg/Kg wet	1860		93.1		75.3-124.2	1.06	30	
Manganese	318	0.97	mg/Kg wet	264.0		**120**	*	80.7-118.9	15.8	30	L-07
Selenium	263	9.7	mg/Kg wet	272.0		96.6		80.1-119.5	6.00	30	
Sodium	412	480	mg/Kg wet	406.0		102		74.9-124.9	1.88	30	J
Thallium	109	4.8	mg/Kg wet	108.0		101		80-119.4	6.94	30	
Vanadium	185	1.9	mg/Kg wet	169.0		109		78.1-122.5	4.18	30	
Zinc	235	1.9	mg/Kg wet	236.0		99.4		80.1-120.3	0.683	30	
LCS Dup (B391581-BSD2)				Prepared: 11/06/24 Analyzed: 11/08/24							
Nickel	318	1.9	mg/Kg wet	298.0		107		82.2-117.8	6.16	30	
Potassium	1960	480	mg/Kg wet	2010		97.6		70.6-129.4	2.49	30	
Silver	76.8	0.97	mg/Kg wet	76.70		100		79.5-120.5	6.13	30	
Dilution Check (B391581-SRL1)		**Source: 24K0186-07**		Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	6570	85	mg/Kg dry		6540				0.472	20	
Antimony	ND	8.5	mg/Kg dry		ND					20	
Arsenic	7.95	17	mg/Kg dry		7.33				8.04	20	J
Barium	49.8	8.5	mg/Kg dry		49.5				0.548	20	
Beryllium	0.389	0.85	mg/Kg dry		0.349				10.8	20	J
Cadmium	ND	1.7	mg/Kg dry		ND					20	
Chromium	15.1	3.4	mg/Kg dry		14.4				5.14	20	
Cobalt	3.59	8.5	mg/Kg dry		3.27				9.48	20	J
Copper	25.4	6.8	mg/Kg dry		25.4				0.286	20	
Iron	10500	85	mg/Kg dry		9520				10.0	20	
Lead	25.0	2.5	mg/Kg dry		21.5				15.1	20	
Manganese	193	1.7	mg/Kg dry		180				6.72	20	
Nickel	8.65	3.4	mg/Kg dry		7.66				12.1	20	
Selenium	ND	17	mg/Kg dry		ND					20	
Silver	ND	1.7	mg/Kg dry		ND					20	
Sodium	ND	850	mg/Kg dry		ND					20	
Thallium	3.20	8.5	mg/Kg dry		ND					20	J
Vanadium	14.8	3.4	mg/Kg dry		14.1				4.82	20	
Zinc	87.0	3.4	mg/Kg dry		76.1				13.3	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392251 - SW-846 7471										
Blank (B392251-BLK1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Mercury	ND	0.025	mg/Kg wet							
LCS (B392251-BS1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Mercury	24.5	1.8	mg/Kg wet	22.80		108	70.6-129.4			
LCS Dup (B392251-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Mercury	22.3	1.9	mg/Kg wet	22.80		97.9	70.6-129.4	9.54	20	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392420 - SW-846 9010C										
Blank (B392420-BLK1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B392420-BS1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	130	4.9	mg/Kg wet	85.17		151	30.6-170			
LCS Dup (B392420-BSD1)				Prepared: 11/17/24 Analyzed: 11/18/24						
Cyanide	120	5.0	mg/Kg wet	85.42		140	30.6-170	7.33	30	

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BREAKDOWN REPORT

Lab Sample ID:	S113689-PEM1	Analyzed:	11/07/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.64
Endrin [1]	1.86

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.93
Endrin [2]	6.71

BREAKDOWN REPORT

Lab Sample ID:	S113689-PEM2	Analyzed:	11/07/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	10.46
Endrin [1]	10.68

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	12.39
Endrin [2]	11.38

BREAKDOWN REPORT

Lab Sample ID:	S113689-PEM3	Analyzed:	11/08/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	10.33
Endrin [1]	6.20

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BREAKDOWN REPORT

Lab Sample ID:	**S113689-PEM3**	**Analyzed:**	**11/08/2024**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	11.98
Endrin [2]	6.51

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

DPT-2(5-10)102324

Lab Sample ID: 24J3715-01 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.941	6.910	6.970	0.0019	
	2	7.050	7.021	7.081	0.0024	23.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

DPT-1(5-10)102324

Lab Sample ID: 24J3715-02 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.939	6.910	6.970	0.0012	
	2	7.046	7.021	7.081	0.0013	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B390946-BS1 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.391	7.360	7.420	0.098	
	2	7.495	7.464	7.524	0.099	1.0
4,4'-DDE	1	6.941	6.910	6.970	0.095	
	2	7.052	7.021	7.081	0.094	1.1
4,4'-DDT	1	7.608	7.577	7.637	0.090	
	2	7.741	7.709	7.769	0.085	6.8
Aldrin	1	6.267	6.235	6.295	0.089	
	2	6.272	6.241	6.301	0.084	5.8
alpha-BHC	1	5.535	5.503	5.563	0.090	
	2	5.533	5.501	5.561	0.084	6.9
alpha-Chlordane	1	6.884	6.853	6.913	0.091	
	2	6.923	6.891	6.951	0.091	0.0
beta-BHC	1	5.795	5.763	5.823	0.085	
	2	5.815	5.782	5.842	0.081	4.8
delta-BHC	1	5.914	5.882	5.942	0.084	
	2	6.009	5.978	6.038	0.080	4.9
Dieldrin	1	7.164	7.132	7.192	0.093	
	2	7.169	7.137	7.197	0.093	0.0
Endosulfan I	1	6.985	6.954	7.014	0.089	
	2	6.964	6.932	6.992	0.087	2.3
Endosulfan II	1	7.509	7.478	7.538	0.087	
	2	7.565	7.532	7.592	0.090	3.4
Endosulfan Sulfate	1	8.156	8.125	8.185	0.084	
	2	8.041	8.010	8.070	0.085	1.2
Endrin	1	7.339	7.308	7.368	0.091	
	2	7.399	7.368	7.428	0.088	3.4
Endrin Aldehyde	1	7.836	7.805	7.865	0.085	
	2	7.830	7.799	7.859	0.087	2.3
Endrin Ketone	1	8.345	8.313	8.373	0.086	
	2	8.406	8.374	8.434	0.086	0.0
gamma-BHC (Lindane)	1	5.740	5.708	5.768	0.086	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B390946-BS1 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.760	5.728	5.788	0.083	3.6
gamma-Chlordane	1	6.787	6.755	6.815	0.091	
	2	6.815	6.783	6.843	0.089	2.2
Heptachlor	1	6.059	6.027	6.087	0.089	
	2	6.051	6.019	6.079	0.086	3.4
Heptachlor Epoxide	1	6.697	6.665	6.725	0.089	
	2	6.678	6.645	6.705	0.085	4.6
Methoxychlor	1	7.986	7.955	8.015	0.081	
	2	8.257	8.226	8.286	0.086	4.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B390946-BSD1 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.391	7.360	7.420	0.098	
	2	7.495	7.464	7.524	0.10	2.0
4,4'-DDE	1	6.942	6.910	6.970	0.093	
	2	7.053	7.021	7.081	0.094	1.1
4,4'-DDT	1	7.608	7.577	7.637	0.091	
	2	7.741	7.709	7.769	0.085	6.8
Aldrin	1	6.268	6.235	6.295	0.078	
	2	6.273	6.241	6.301	0.076	2.6
alpha-BHC	1	5.535	5.503	5.563	0.068	
	2	5.532	5.501	5.561	0.064	6.1
alpha-Chlordane	1	6.885	6.853	6.913	0.086	
	2	6.923	6.891	6.951	0.088	2.3
beta-BHC	1	5.796	5.763	5.823	0.077	
	2	5.815	5.782	5.842	0.077	0.0
delta-BHC	1	5.914	5.882	5.942	0.080	
	2	6.010	5.978	6.038	0.076	5.1
Dieldrin	1	7.164	7.132	7.192	0.090	
	2	7.169	7.137	7.197	0.091	1.1
Endosulfan I	1	6.985	6.954	7.014	0.085	
	2	6.964	6.932	6.992	0.084	1.2
Endosulfan II	1	7.509	7.478	7.538	0.086	
	2	7.564	7.532	7.592	0.089	3.4
Endosulfan Sulfate	1	8.156	8.125	8.185	0.083	
	2	8.041	8.010	8.070	0.083	0.0
Endrin	1	7.340	7.308	7.368	0.088	
	2	7.399	7.368	7.428	0.087	1.1
Endrin Aldehyde	1	7.836	7.805	7.865	0.077	
	2	7.829	7.799	7.859	0.087	12.2
Endrin Ketone	1	8.345	8.313	8.373	0.086	
	2	8.405	8.374	8.434	0.084	2.4
gamma-BHC (Lindane)	1	5.741	5.708	5.768	0.070	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B390946-BSD1 Date(s) Analyzed: 11/07/2024 11/07/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.759	5.728	5.788	0.070	0.0
gamma-Chlordane	1	6.787	6.755	6.815	0.087	
	2	6.815	6.783	6.843	0.085	2.3
Heptachlor	1	6.059	6.027	6.087	0.075	
	2	6.052	6.019	6.079	0.075	0.0
Heptachlor Epoxide	1	6.697	6.665	6.725	0.081	
	2	6.677	6.645	6.705	0.082	1.2
Methoxychlor	1	7.986	7.955	8.015	0.084	
	2	8.257	8.226	8.286	0.087	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B391058-BS1

Date(s) Analyzed: 11/04/2024 11/04/2024

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.21	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B391058-BSD1 Date(s) Analyzed: 11/04/2024 11/04/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.21	10.0

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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.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-17C	Extracted internal standard is outside of control limits. Analyte is a known difficult compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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	Sample was re-extracted outside of holding time due to B flag result in the method blank. Data performed outside of holding time is also reported since blank results are acceptable.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
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 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

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Analyte	Certifications
SW-846 6010D in Soil	
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Soil	
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	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
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260D in Water	
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

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

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Analyte	Certifications
SW-846 8270E in Water	
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)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(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	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(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	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-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	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
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	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-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA

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Analyte	Certifications
SW-846 8270E in Water	
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-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
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	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-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-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
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	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
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA

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Analyte	Certifications
SW-846 8270E in Water	
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-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
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	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
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

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

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

Pace Analytical

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East Longmeadow, MA 01028

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24J3715

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address:	2021 Fuller Rd, Suite 201, Albany, NY 12203
Consultant Phone:	518-250-7334
Callout Project Name:	Former Commanders Oil Terminal - Off-Site
Project Location:	Nassau
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbaquingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYS DEC
Sampled By:	Maeve Tucker

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bagnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM / 8082 PCBs	8081 Pesticide / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 1633 / PFAS 537 ID (See Note)	1,4-Dioxane SIM					
1	DPT-2(5-10)102324	10/23	0925	✓		S	U	X	X	X	X	X	X	X					
2	DPT-1(5-10)102324	10/23	1120	✓		S	U	X	X	X	X	X							
3	DPT-1(11-13)GW102324	10/23	1450		✓	GW	U	X	X										
4	DPT-1(15-17)GW102324	10/23	1415		✓	GW	U	X	X				X	X					
5	Trip Blank 102324							X											

	12	6	2	2	2	4	3					
# of Containers												
[2] Preservation Code	*	I	I	I	I	I	I					
[3] Container Code	V	A	A	A	A	P	A					

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: * GW 8260 preserved with H. Soil 8260 preserved with M & B

Note: Lab to centrifuge PFAS 1633 for DPT-1(15-17)GW102324

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Maeve Tucker	Date/Time: 10/23/24 1730
Received by: (signature)	AEB Pace LI	Date/Time: 10/23/24 17:50
Relinquished by: (signature)	AEB Pace LI	Date/Time: 10/23/24 18:00
Received by: (signature)	MSMA(AAL)	Date/Time: 10/23 1835
Relinquished by: (signature)	MSMA(AAL)	Date/Time: 10/23 2050
Received by: (signature)	Anthony Green	Date/Time: OCT 23 2024 2100

Program & Regulatory Information
☐ AWQ STDS ☑ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☑ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

PACE 10/24/24

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Table of Contents

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

Log In Back-Sheet

Client Arcadis

Project Former Commander Oil

MCP/RCP Required na

Deliverable Package Requirement na

Location NY

PWSID# (When Applicable) na

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time BL 10/24/24 725

Back-Sheet By / Date / Time SR 10/25/24 1007

Temperature Method Gun # 6

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

Temp < 6° C Actual Temperature 1.2

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

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

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

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: N/A ☑ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

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

ANALYTICAL REPORT

Lab Number:	L2462519
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24J3715
Project Number:	24J3715
Report Date:	11/08/24

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

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

Project Name: 24J3715
Project Number: 24J3715

Lab Number: L2462519
Report Date: 11/08/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2462519-01	DPT-2 (5-10) 102324	SOIL	Not Specified	10/23/24 09:25	10/25/24
L2462519-02	DPT-1 (5-10) 102324	SOIL	Not Specified	10/23/24 11:20	10/25/24

Project Name:	24J3715	**Lab Number:**	L2462519
Project Number:	24J3715	**Report Date:**	11/08/24

Case Narrative

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

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

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

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

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

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

Project Name: 24J3715 **Lab Number:** L2462519
Project Number: 24J3715 **Report Date:** 11/08/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature: Caitlin Walukevich Caitlin Walukevich

Title: Technical Director/Representative Date: 11/08/24

ORGANICS

PESTICIDES

Project Name: 24J3715 **Lab Number:** L2462519

Project Number: 24J3715 **Report Date:** 11/08/24

SAMPLE RESULTS

Lab ID: L2462519-01
Client ID: DPT-2 (5-10) 102324
Sample Location: Not Specified

Date Collected: 10/23/24 09:25
Date Received: 10/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/30/24 18:27
Analyst: EJL
Percent Solids: 51%
Methylation Date: 10/30/24 03:00

Extraction Method: EPA 8151A
Extraction Date: 10/29/24 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	6430	2020	1	A
MCPA	ND		ug/kg	6430	1820	1	A
Dalapon	ND		ug/kg	64.3	21.0	1	A
Dicamba	ND		ug/kg	64.3	10.8	1	A
Dichloroprop	ND		ug/kg	64.3	18.4	1	A
2,4-D	ND		ug/kg	321	20.2	1	A
2,4-DB	ND		ug/kg	321	16.5	1	A
2,4,5-T	ND		ug/kg	321	9.96	1	A
2,4,5-TP (Silvex)	ND		ug/kg	321	8.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	80		30-150	A
DCAA	76		30-150	B

Project Name: 24J3715 **Lab Number:** L2462519

Project Number: 24J3715 **Report Date:** 11/08/24

SAMPLE RESULTS

Lab ID: L2462519-02
Client ID: DPT-1 (5-10) 102324
Sample Location: Not Specified

Date Collected: 10/23/24 11:20
Date Received: 10/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/30/24 18:46
Analyst: EJL
Percent Solids: 42%
Methylation Date: 10/30/24 07:30

Extraction Method: EPA 8151A
Extraction Date: 10/29/24 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	7710	2430	1	A
MCPA	ND		ug/kg	7710	2180	1	A
Dalapon	ND		ug/kg	77.1	25.2	1	A
Dicamba	ND		ug/kg	77.1	13.0	1	A
Dichloroprop	ND		ug/kg	77.1	22.1	1	A
2,4-D	ND		ug/kg	386	24.3	1	A
2,4-DB	ND		ug/kg	386	19.8	1	A
2,4,5-T	ND		ug/kg	386	12.0	1	A
2,4,5-TP (Silvex)	ND		ug/kg	386	10.2	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	92		30-150	B

Project Name: 24J3715 **Lab Number:** L2462519

Project Number: 24J3715 **Report Date:** 11/08/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/30/24 08:51
Analyst: PEG

Extraction Method: EPA 8151A
Extraction Date: 10/28/24 18:25

Methylation Date: 10/30/24 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1990102-1						
MCPP	ND		ug/kg	3260	1020	A
MCPA	ND		ug/kg	3260	922.	A
Dalapon	ND		ug/kg	32.6	10.6	A
Dicamba	ND		ug/kg	32.6	5.47	A
Dichloroprop	ND		ug/kg	32.6	9.34	A
2,4-D	ND		ug/kg	163	10.2	A
2,4-DB	ND		ug/kg	163	8.37	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	62		30-150	A
DCAA	63		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24J3715
Project Number: 24J3715
Lab Number: L2462519
Report Date: 11/08/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1990102-2 WG1990102-3									
MCPP	79		83		30-150	5		30	A
MCPA	68		71		30-150	4		30	A
Dalapon	48		53		30-150	10		30	A
Dicamba	62		66		30-150	6		30	A
Dichloroprop	66		68		30-150	3		30	A
2,4-D	66		67		30-150	2		30	A
2,4-DB	90		91		30-150	1		30	A
2,4,5-T	69		70		30-150	1		30	A
2,4,5-TP (Silvex)	65		67		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	60		65		30-150	A
DCAA	66		73		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24J3715
Project Number: 24J3715

Lab Number: L2462519
Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2462519-01
Client ID: DPT-2 (5-10) 102324
Sample Location: Not Specified

Date Collected: 10/23/24 09:25
Date Received: 10/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	50.6		%	0.100	NA	1	-	11/04/24 20:53	121,2540G	SJB

Project Name: 24J3715
Project Number: 24J3715

Lab Number: L2462519
Report Date: 11/08/24

SAMPLE RESULTS

Lab ID: L2462519-02
Client ID: DPT-1 (5-10) 102324
Sample Location: Not Specified

Date Collected: 10/23/24 11:20
Date Received: 10/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	42.4		%	0.100	NA	1	-	11/04/24 20:53	121,2540G	SJB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24J3715
Project Number: 24J3715

Lab Number: L2462519
Report Date: 11/08/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1992981-1 QC Sample: L2462519-01 Client ID: DPT-2 (5-10) 102324						
Solids, Total	50.6	55.3	%	9		20

Project Name: 24J3715
Project Number: 24J3715

Lab Number: L2462519
Report Date: 11/08/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2462519-01A	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		TS(7),HERB-8151(14)
L2462519-02A	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		TS(7),HERB-8151(14)

*Values in parentheses indicate holding time in days

Project Name:	24J3715	**Lab Number:**	L2462519
Project Number:	24J3715	**Report Date:**	11/08/24

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J3715	**Lab Number:**	L2462519
Project Number:	24J3715	**Report Date:**	11/08/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24J3715	**Lab Number:**	L2462519
Project Number:	24J3715	**Report Date:**	11/08/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24J3715 **Lab Number:** L2462519

Project Number: 24J3715 **Report Date:** 11/08/24

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24J3715

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

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

L2462519
CONTEST

08NOV24

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24J3715-01	**DPT-2(5-10)102324**	**Soil**	**Sampled:**	**10/23/24 09:25**	**CAT B**
S-8151 DER TCL		11/21/24 14:00		11/06/24 09:25	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (C)					
Sample ID: 24J3715-02	**DPT-1(5-10)102324**	**Soil**	**Sampled:**	**10/23/24 11:20**	**CAT B**
S-8151 DER TCL		11/21/24 14:00		11/06/24 11:20	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (B)					

Released By	Date	Received By	Date
	10-25-24 1600		10-25 1600
Released By	Date	Received By	Date
	10-25 1745		10/25/24 1746

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

24J3715

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: Arcadis

Consultant Address: 201 Fuller Rd, Suite 201, Albany, NY 12203

Consultant Phone: 518-250-7334

Callout Project Name: Former Commanders Oil Terminal - Off-Site

Project Location: Nassau

Callout Number: 151674

Site/Spill Number: C130244A

Project Manager: Steeven Imbaquingo

Pace Analytical Quote Name/Number: C100913

Invoice Recipient: NYS DEC

Sampled By: Maeve Tucker

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bagnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane-SIM-	8082 PCBs	8081 Pesticide	8151 Herbicide	TAL Total Metals	-TCLP-RCRA-8-Metals	PFAS 537 ID	PFAS 1633 (See Note)	1,4-Dioxane SIM [3]					
								12	6	2	2	2	4	3									
								*	I	I	I	I	I	I									
								V	A	A	A	A	P	A									
1	DPT-2(5-10)102324	10/23	0925	✓		S	U	X	X	X		X	X	X			X	X					
2	DPT-1(5-10)102324	10/23	1120	✓		S	U	X	X	X		X	X	X									
3	DPT-1(11-13)GW102324	10/23	1450		✓	GW	U	X	X														
4	DPT-1(15-17)GW102324	10/23	1415		✓	GW	U	X	X									X	X				
5	Trip Blank 102324							X															

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
Field Filtered ☐
Lab to Filter ☐

Orthophosphate Samples
Field Filtered ☐
Lab to Filter ☐

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: * GW 8260 preserved with H. Soil 8260 preserved with M & B

Note: Lab to centrifuge PFAS 1633 for DPT-1(15-17)GW102324

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Maeve Tucker	10/23/24 1730
Received by: (signature) AEB Pace LI	Date/Time: 10/23/24 17:50
Relinquished by: (signature) AEB Pace LI	Date/Time: 10/23/24 18:00
Received by: (signature) MSMA(AAL)	Date/Time: 10/23 1930
Relinquished by: (signature) MSMA(AAL)	Date/Time: 10/23 2050
Received by: (signature) Anthony Green	Date/Time: OCT 23 2024 2100

Program & Regulatory Information
AWQ STDS ☐ NY TOGS ☑
NYC Sewer Discharge ☐ NY CP-51 ☐
Part 360 GW (Landfill) ☐
NY Restricted Use ☐
NY Unrestricted Use ☐
NY Part 375 ☑
Other:

Deliverables
Enhanced Data Package ☐
NYSDEC EQuIS EDD ☑
EQuIS (Standard) EDD ☐
NY Regulatory EDD ☐
NY Regs Hits-Only EDD ☐
Other:

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
Chromatogram ☐
AIHA-LAP,LLC ☐

PCB ONLY
Soxhlet ☐
Non Soxhlet ☐

10/24/24 0010 RED

10/24/24 0210

10/24/24 07:25

Cooler 1.2 10/24/24 07:25

Rel: PACE 10/24/24 07:25

Serial_No:1108 Table of Contents

Raymond McCarthy

From: Imbaquingo, Steeven A (DEC) <Steeven.Imbaquingo@dec.ny.gov>
Sent: Wednesday, November 13, 2024 11:32 AM
To: Raymond McCarthy
Subject: RE: Voice Mail (28 seconds)

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning,

Thank you for reaching back.
The work orders that we are looking to add more analysis, if there's any leftover volume, are:

- 24J3715:
  - subsurface soil analysis of **cyanide** for DPT-1(5-10)102324 and DPT-2(5-10)02324.
  - Groundwater analysis of **VOCs** and **SVOCs** for DPT-1(5-10)GW102324
- 24J3305:
  - subsurface soil analysis of **cyanide** for MW-1(5-6)102124 and MW-1(20-22.5)102124
- 24J3350:
  - surface soil analysis of **cyanide** for MW-2(SS)102224

Please let me know about this request. Thank you.

Sincerely,
Steeven Imbaquingo
he/him/his
Project Manager, Remedial Bureau A, Section B
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7015
Phone: 518-402-9739
www.dec.ny.gov | | |

From: Raymond McCarthy <Raymond.McCarthy@pacelabs.com>
Sent: Wednesday, November 13, 2024 11:18 AM
To: Imbaquingo, Steeven A (DEC) <Steeven.Imbaquingo@dec.ny.gov>
Subject: RE: Voice Mail (28 seconds)

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November 19, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Nassau, NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24J3762

Enclosed are results of analyses for samples as received by the laboratory on October 25, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 11/19/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J3762

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-3(23-23.5)102424	24J3762-01	Soil		SM 2540G	
				SW-846 8260D	
DPT-2(5-7)GW102424	24J3762-02	Ground Water		SW-846 8260D	
				SW-846 8270E	
DPT-2(15-17)GW102424	24J3762-03	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
Trip Blank 102424	24J3762-04	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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Draft Method 1633

Qualifications:

H-01

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

Analyte & Samples(s) Qualified:

Total Suspended Solids
24J3762-03[DPT-2(15-17)GW102424]

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
S114148-CCB4

D9-NEtFOSE
S114148-CCB4

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S114148-CCB4

N-methylperfluorooctanesulfonamidoethanol(NMeF
S114148-CCB4

PF-17C

Extracted internal standard is outside of control limits. Analyte is a known difficult compound.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
B392050-BLK1, B392050-BS1, B392050-MRL1

13C2-6:2FTS
B392050-BLK1, B392050-BS1, B392050-MRL1

13C2-8:2FTS
24J3762-03[DPT-2(15-17)GW102424]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
24J3762-03[DPT-2(15-17)GW102424]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS
B392050-BLK1, B392050-BS1, B392050-MRL1

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
B392050-BLK1, B392050-BS1, B392050-MRL1

PF-22

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

Analyte & Samples(s) Qualified:

N-MeFOSAA (NMeFOSAA)
24J3762-03[DPT-2(15-17)GW102424]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
S114095-CCV2, S114148-CCV2, S114148-CCV3, S114148-CCV4

13C2-6:2FTS
S114095-CCV2, S114148-CCV2, S114148-CCV3, S114148-CCV4

13C8-PFOA
24J3762-03[DPT-2(15-17)GW102424]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS
S114095-CCV2, S114148-CCV2, S114148-CCV3, S114148-CCV4

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
S114095-CCV2, S114148-CCV2, S114148-CCV3, S114148-CCV4

Perfluorooctanoic acid (PFOA)
24J3762-03[DPT-2(15-17)GW102424]

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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:

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
S114095-CCV2, S114148-CCV2, S114148-CCV3, S114148-CCV4

Perfluorododecanesulfonic acid (PFDoS)
S114148-CCV4

SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids
24J3762-01[MW-3(23-23.5)102424]

SW-846 8260D

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:

2-Hexanone (MBK)
24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], 24J3762-04[Trip Blank 102424], B390494-BLK1, B390494-BS1, B390494-BSD1, S112951-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:

Dichlorodifluoromethane (Freon 12)
24J3762-01[MW-3(23-23.5)102424], B390650-BLK1, B390650-BS1, B390650-BSD1, S112899-CCV1

Ethanol
24J3762-01[MW-3(23-23.5)102424], B390650-BLK1, B390650-BS2, B390650-BSD2, S112899-CCV2

V-20

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)
B390494-BS1, B390494-BSD1, S112951-CCV1

Trichlorofluoromethane (Freon 11)
B390494-BS1, B390494-BSD1, S112951-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
24J3762-03[DPT-2(15-17)GW102424], B390627-BLK1, B390627-BS1, B390627-BSD1

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24J3762-03RE1[DPT-2(15-17)GW102424]

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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

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], B390568-BLK1, B390568-BS1, B390568-BSD1

L-07

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

B390568-BS1

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

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

Dibenz(a,h)anthracene

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

Di-n-octylphthalate

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

Indeno(1,2,3-cd)pyrene

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV1, S113208-CCV1

V-05

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

Analyte & Samples(s) Qualified:

Aniline

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], S113208-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:

Caprolactam

B390568-BLK1, B390568-BS1, B390568-BSD1, S113189-CCV2

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

24J3762-02[DPT-2(5-7)GW102424], 24J3762-03[DPT-2(15-17)GW102424], B390568-BLK1, B390568-BS1, B390568-BSD1, S 113189-CCV1, S113208-CCV1, S113334-ICV1

Z-01

Sample was re-extracted outside of holding time due to B flag result in the method blank. Data performed outside of holding time is also reported since blank results are acceptable.

Analyte & Samples(s) Qualified:

1,4-Dioxane

24J3762-03[DPT-2(15-17)GW102424]

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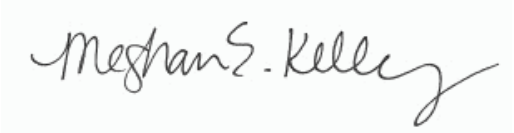
The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in 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.



Meghan E. Kelley
Reporting Specialist

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: MW-3(23-23.5)102424 | Sampled: 10/24/2024 09:00

Sample ID: 24J3762-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.088	0.045	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0038	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00088	0.00082	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Benzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Bromochloromethane	ND	0.0018	0.00075	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Bromodichloromethane	ND	0.0018	0.00045	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Bromoform	ND	0.0018	0.00077	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Bromomethane	ND	0.0088	0.0015	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
2-Butanone (MEK)	ND	0.035	0.0074	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
tert-Butyl Alcohol (TBA)	ND	0.088	0.036	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
n-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
sec-Butylbenzene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
tert-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00088	0.00076	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Carbon Disulfide	ND	0.018	0.0088	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Carbon Tetrachloride	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Chlorobenzene	ND	0.0018	0.00042	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Chlorodibromomethane	ND	0.00088	0.00058	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Chloroethane	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Chloroform	ND	0.0035	0.00057	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Chloromethane	ND	0.0088	0.0011	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Cyclohexane	ND	0.0088	0.0036	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0035	0.00071	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	0.00064	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00050	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00077	mg/Kg dry	1	V-05	SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,1-Dichloroethane	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2-Dichloroethane	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,1-Dichloroethylene	ND	0.0035	0.00084	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2-Dichloropropane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
cis-1,3-Dichloropropene	ND	0.00088	0.00066	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
trans-1,3-Dichloropropene	ND	0.00088	0.00067	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Diisopropyl Ether (DIPE)	ND	0.00088	0.00071	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Ethanol	ND	0.18	0.035	mg/Kg dry	1	V-05	SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Ethylbenzene	ND	0.0018	0.00050	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
2-Hexanone (MBK)	ND	0.018	0.0060	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: MW-3(23-23.5)102424 | Sampled: 10/24/2024 09:00

Sample ID: 24J3762-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	0.00077	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Methyl Cyclohexane	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Methylene Chloride	ND	0.018	0.00082	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0077	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Naphthalene	ND	0.0035	0.00087	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
n-Propylbenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Styrene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.00088	0.00067	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Tetrachloroethylene	ND	0.0018	0.00076	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Toluene	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00052	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00045	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Trichloroethylene	ND	0.0018	0.00066	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	0.0010	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0088	0.00092	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00084	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Vinyl Chloride	ND	0.0088	0.00068	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
m+p Xylene	ND	0.0035	0.0013	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
o-Xylene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	10/28/24	10/28/24 9:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		10/28/24 9:52
Toluene-d8	99.6	70-130		10/28/24 9:52
4-Bromofluorobenzene	97.6	70-130		10/28/24 9:52

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: MW-3(23-23.5)102424 | Sampled: 10/24/2024 09:00

Sample ID: 24J3762-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1	H-06	SM 2540G	11/6/24	11/6/24 9:55	MEF/MLR

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(5-7)GW102424 | Sampled: 10/24/2024 11:50

Sample ID: 24J3762-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
tert-Amyl Alcohol (TAA)	40	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
tert-Amyl Methyl Ether (TAME)	0.50	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Benzene	28	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
tert-Butyl Alcohol (TBA)	18	20	3.4	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
n-Butylbenzene	3.8	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
sec-Butylbenzene	3.8	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
tert-Butylbenzene	0.52	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Cyclohexane	16	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,1-Dichloroethane	1.2	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,1-Dichloroethylene	0.23	1.0	0.18	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
cis-1,2-Dichloroethylene	7.3	1.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Ethylbenzene	14	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Isopropylbenzene (Cumene)	5.2	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
p-Isopropyltoluene (p-Cymene)	0.78	1.0	0.16	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(5-7)GW102424 | Sampled: 10/24/2024 11:50

Sample ID: 24J3762-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	13	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Methyl Cyclohexane	8.1	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Naphthalene	1.7	2.0	0.25	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
n-Propylbenzene	7.9	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Toluene	40	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Trichloroethylene	0.24	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,2,4-Trimethylbenzene	24	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
1,3,5-Trimethylbenzene	5.8	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Vinyl Chloride	31	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
m+p Xylene	19	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
o-Xylene	13	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH
Xylenes (total)	33	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		10/28/24 15:07
Toluene-d8	100	70-130		10/28/24 15:07
4-Bromofluorobenzene	111	70-130		10/28/24 15:07

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(5-7)GW102424 | Sampled: 10/24/2024 11:50

Sample ID: 24J3762-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Caprolactam	ND	9.4	0.67	µg/L	1	L-04	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Acenaphthene	5.1	4.7	0.74	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Acetophenone	ND	9.4	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Aniline	ND	19	8.4	µg/L	1	V-05	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.4	0.70	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.30	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Carbazole	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4-Chloro-3-methylphenol	ND	9.4	0.59	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2-Chloronaphthalene	ND	9.4	0.76	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2-Chlorophenol	ND	9.4	0.38	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4-Chlorophenylphenylether	ND	9.4	0.81	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Dibenz(a,h)anthracene	ND	4.7	0.44	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Dibenzofuran	4.4	4.7	0.80	µg/L	1	J	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Diethylphthalate	ND	9.4	0.52	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,4-Dimethylphenol	ND	9.4	0.38	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,6-Dinitrotoluene	ND	9.4	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Fluorene	7.9	4.7	0.71	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Hexachlorobenzene	ND	9.4	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(5-7)GW102424 | Sampled: 10/24/2024 11:50

Sample ID: 24J3762-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Hexachloroethane	ND	9.4	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.44	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Isophorone	ND	9.4	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
1-Methylnaphthalene	92	4.7	0.92	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2-Methylnaphthalene	0.94	4.7	0.87	µg/L	1	J	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Naphthalene	1.5	4.7	0.85	µg/L	1	J	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2-Nitroaniline	ND	9.4	0.46	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
3-Nitroaniline	ND	9.4	0.48	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Nitrobenzene	ND	9.4	0.63	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
N-Nitrosodiphenylamine/Diphenylamine	1.3	9.4	0.45	µg/L	1	J	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.61	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Phenanthrene	8.3	4.7	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Phenol	1.8	9.4	0.55	µg/L	1	J	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	SW-846 8270E	10/26/24	11/1/24 14:38	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,4,5-Trichlorophenol	ND	9.4	0.42	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL
2,4,6-Trichlorophenol	ND	9.4	0.35	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:38	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	51.3	15-110		11/1/24 14:38
Phenol-d6	34.2	15-110		11/1/24 14:38
Nitrobenzene-d5	78.0	30-130		11/1/24 14:38
2-Fluorobiphenyl	76.5	30-130		11/1/24 14:38
2,4,6-Tribromophenol	92.9	15-110		11/1/24 14:38
p-Terphenyl-d14	89.7	30-130		11/1/24 14:38

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Chloroform	0.55	2.0	0.19	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Tetrachloroethylene	0.41	1.0	0.17	µg/L	1	J	SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 15:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		10/28/24 15:33
Toluene-d8	102	70-130		10/28/24 15:33
4-Bromofluorobenzene	92.3	70-130		10/28/24 15:33

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.0	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Benzaldehyde	ND	9.0	0.65	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Biphenyl	ND	18	0.82	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Caprolactam	ND	9.0	0.64	µg/L	1	L-04	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Acenaphthene	ND	4.5	0.70	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Acenaphthylene	ND	4.5	0.57	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Acetophenone	ND	9.0	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Aniline	ND	18	8.0	µg/L	1	V-05	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Bis(2-chloroethoxy)methane	ND	9.0	0.51	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Bis(2-chloroethyl)ether	ND	9.0	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	0.67	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	0.29	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4-Bromophenylphenylether	ND	9.0	0.64	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Butylbenzylphthalate	ND	9.0	0.35	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Carbazole	ND	9.0	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4-Chloroaniline	ND	9.0	4.6	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4-Chloro-3-methylphenol	ND	9.0	0.57	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2-Chloronaphthalene	ND	9.0	0.73	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2-Chlorophenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4-Chlorophenylphenylether	ND	9.0	0.78	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Dibenzofuran	ND	4.5	0.77	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Di-n-butylphthalate	ND	9.0	0.45	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
3,3-Dichlorobenzidine	ND	9.0	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,4-Dichlorophenol	ND	9.0	0.42	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Diethylphthalate	ND	9.0	0.50	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,4-Dimethylphenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Dimethylphthalate	ND	9.0	0.39	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,4-Dinitrophenol	ND	9.0	1.2	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,4-Dinitrotoluene	ND	9.0	0.31	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,6-Dinitrotoluene	ND	9.0	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Di-n-octylphthalate	ND	9.0	0.29	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Fluoranthene	ND	4.5	0.50	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Hexachlorobenzene	ND	9.0	0.65	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	1.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Hexachlorocyclopentadiene	ND	9.0	2.5	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Hexachloroethane	ND	9.0	1.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Isophorone	ND	9.0	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
1-Methylnaphthalene	ND	4.5	0.88	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2-Methylnaphthalene	ND	4.5	0.83	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2-Methylphenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
3/4-Methylphenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2-Nitroaniline	ND	9.0	0.44	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
3-Nitroaniline	ND	9.0	0.46	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4-Nitroaniline	ND	9.0	0.39	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Nitrobenzene	ND	9.0	0.60	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2-Nitrophenol	ND	9.0	0.49	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
4-Nitrophenol	ND	9.0	1.2	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
N-Nitrosodi-n-propylamine	ND	9.0	0.59	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Pentachlorophenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Phenanthrene	ND	4.5	0.64	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Phenol	ND	9.0	0.53	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
Pyridine	ND	18	4.6	µg/L	1	V-34	SW-846 8270E	10/26/24	11/1/24 14:58	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	1.1	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,4,5-Trichlorophenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL
2,4,6-Trichlorophenol	ND	9.0	0.34	µg/L	1		SW-846 8270E	10/26/24	11/1/24 14:58	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	45.1	15-110		11/1/24 14:58
Phenol-d6	28.8	15-110		11/1/24 14:58
Nitrobenzene-d5	78.5	30-130		11/1/24 14:58
2-Fluorobiphenyl	77.6	30-130		11/1/24 14:58
2,4,6-Tribromophenol	87.4	15-110		11/1/24 14:58
p-Terphenyl-d14	80.0	30-130		11/1/24 14:58

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.26	0.20	0.033	µg/L	1		SW-846 8270E	11/4/24	11/11/24 21:35	GJB
1,4-Dioxane	0.25	0.20	0.032	µg/L	1	Z-01, B	SW-846 8270E	10/28/24	11/1/24 15:07	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	31.2	15-110		11/1/24 15:07
1,4-Dioxane-d8	24.8	15-110		11/11/24 21:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	4.3	2.4	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoropentanoic acid (PFPeA)	31	2.2	0.46	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorohexanoic acid (PFHxA)	31	1.1	0.26	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoroheptanoic acid (PFHpA)	5.4	1.1	0.29	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorooctanoic acid (PFOA)	9.9	1.1	0.28	ng/L	1	S-29	Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorononanoic acid (PFNA)	0.75	1.1	0.20	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorodecanoic acid (PFDA)	0.53	1.1	0.22	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorododecanoic acid (PFDoA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.1	0.32	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.1	0.28	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorobutanesulfonic acid (PFBS)	5.7	1.1	0.23	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoropentanesulfonic acid (PFPeS)	0.56	1.1	0.28	ng/L	1	J	Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorohexanesulfonic acid (PFHxS)	2.3	1.1	0.30	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.1	0.36	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorooctanesulfonic acid (PFOS)	3.2	1.1	0.41	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.1	0.27	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.3	0.81	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.3	3.3	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.3	1.2	ng/L	1	PF-17C	Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.1	0.25	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.1	0.35	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.1	0.36	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
N-MeFOSAA (NMeFOSAA)	0.56	1.1	0.39	ng/L	1	PF-22, J	Draft Method 1633	11/15/24	11/18/24 20:33	AB
N-EtFOSAA (NEtFOSAA)	ND	1.1	0.43	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	11	3.0	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	11	2.9	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.3	1.1	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.3	0.89	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
9Cl-PF3ONS (F53B Minor)	ND	4.3	1.0	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
11Cl-PF3OUdS (F53B Major)	ND	4.3	1.2	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	11	2.4	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	54	12	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	54	10	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.2	0.38	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.2	0.60	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.2	0.58	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.2	0.60	ng/L	1		Draft Method 1633	11/15/24	11/18/24 20:33	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	62.4		10-130		11/18/24 20:33
13C5-PFPeA	62.3		35-150		11/18/24 20:33
13C5-PFHxA	60.8		55-150		11/18/24 20:33
13C4-PFHpA	62.6		55-150		11/18/24 20:33
13C8-PFOA	**59.7**	*	60-140	S-29	11/18/24 20:33
13C9-PFNA	61.1		55-140		11/18/24 20:33
13C6-PFDA	61.1		50-140		11/18/24 20:33
13C7-PFUnA	51.3		30-140		11/18/24 20:33
13C2-PFDoA	37.9		10-150		11/18/24 20:33
13C2-PFTeDA	21.2		10-130		11/18/24 20:33
13C3-PFBS	67.4		55-150		11/18/24 20:33
13C3-PFHxS	60.8		55-150		11/18/24 20:33
13C8-PFOS	60.0		45-140		11/18/24 20:33
13C2-4:2FTS	63.7		60-200		11/18/24 20:33
13C2-6:2FTS	61.8		60-200		11/18/24 20:33
13C2-8:2FTS	**47.6**	*	50-200	PF-17C	11/18/24 20:33
13C8-PFOSA	53.0		30-130		11/18/24 20:33
D3-NMeFOSA	37.2		15-130		11/18/24 20:33
D5-NEtFOSA	36.3		10-130		11/18/24 20:33
D3-NMeFOSAA	55.2		45-200		11/18/24 20:33
D5-NEtFOSAA	50.1		10-200		11/18/24 20:33
D7-NMeFOSE	44.5		10-150		11/18/24 20:33
D9-NEtFOSE	39.4		10-150		11/18/24 20:33
13C3-HFPO-DA	70.1		25-160		11/18/24 20:33

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: DPT-2(15-17)GW102424 | Sampled: 10/24/2024 13:15

Sample ID: 24J3762-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	510	10	mg/L	1	H-01	Draft Method 1633	11/1/24	11/1/24 13:52	LL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: Trip Blank 102424 | Sampled: 10/24/2024 00:00

Sample ID: 24J3762-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1	R-05	SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24J3762

Date Received: 10/25/2024

Field Sample #: Trip Blank 102424 | Sampled: 10/24/2024 00:00

Sample ID: 24J3762-04

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/25/24	10/28/24 13:25	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		10/28/24 13:25
Toluene-d8	99.6	70-130		10/28/24 13:25
4-Bromofluorobenzene	106	70-130		10/28/24 13:25

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24J3762-03 [DPT-2(15-17)GW102424]	B391079	50.0	11/01/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 11/1/2024 per NO PREP in Batch B391079

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3762-03 [DPT-2(15-17)GW102424]	B392050	463	5.00	11/15/24

Prep Method:% Solids Analytical Method:SM 2540G

Lab Number [Field ID]	Batch	Date
24J3762-01 [MW-3(23-23.5)102424]	B391518	11/06/24

Prep Method:SW-846 5035 Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3762-01 [MW-3(23-23.5)102424]	B390650	6.51	10.0	10/28/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3762-02 [DPT-2(5-7)GW102424]	B390494	5	5.00	10/25/24
24J3762-03 [DPT-2(15-17)GW102424]	B390494	5	5.00	10/25/24
24J3762-04 [Trip Blank 102424]	B390494	5	5.00	10/25/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3762-02 [DPT-2(5-7)GW102424]	B390568	107	1.00	10/26/24
24J3762-03 [DPT-2(15-17)GW102424]	B390568	112	1.00	10/26/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3762-03 [DPT-2(15-17)GW102424]	B390627	1020	1.00	10/28/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3762-03RE1 [DPT-2(15-17)GW102424]	B391271	1000	1.00	11/04/24

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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 B390494 - SW-846 5030B										
Blank (B390494-BLK1)				Prepared: 10/25/24 Analyzed: 10/28/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
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							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							R-05
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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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 B390494 - SW-846 5030B											
Blank (B390494-BLK1)				Prepared: 10/25/24 Analyzed: 10/28/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.00		101	70-130				
Surrogate: Toluene-d8	*23.5*		µg/L	25.00		93.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.00		102	70-130				
LCS (B390494-BS1)				Prepared: 10/25/24 Analyzed: 10/28/24							
Acetone	96.1	50	µg/L	100.0		96.1	70-160				†
tert-Amyl Alcohol (TAA)	116	5.0	µg/L	100.0		116	70-130				
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00		106	70-130				
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.00		108	70-130				
Benzene	11.4	1.0	µg/L	10.00		114	70-130				
Bromochloromethane	11.4	1.0	µg/L	10.00		114	70-130				
Bromodichloromethane	11.3	0.50	µg/L	10.00		113	70-130				
Bromoform	11.6	1.0	µg/L	10.00		116	70-130				
Bromomethane	12.0	2.0	µg/L	10.00		120	40-160				†
2-Butanone (MEK)	96.8	20	µg/L	100.0		96.8	40-160				†
tert-Butyl Alcohol (TBA)	112	20	µg/L	100.0		112	40-160				†
n-Butylbenzene	11.4	1.0	µg/L	10.00		114	70-130				
sec-Butylbenzene	11.1	1.0	µg/L	10.00		111	70-130				
tert-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.00		106	70-130				
Carbon Disulfide	111	5.0	µg/L	100.0		111	70-130				
Carbon Tetrachloride	12.1	5.0	µg/L	10.00		121	70-130				
Chlorobenzene	11.4	1.0	µg/L	10.00		114	70-130				
Chlorodibromomethane	11.5	0.50	µg/L	10.00		115	70-130				
Chloroethane	9.92	2.0	µg/L	10.00		99.2	70-130				
Chloroform	10.6	2.0	µg/L	10.00		106	70-130				
Chloromethane	9.87	2.0	µg/L	10.00		98.7	40-160				†
Cyclohexane	11.1	5.0	µg/L	10.00		111	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.00		104	70-130				
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112	70-130				
1,2-Dichlorobenzene	11.9	1.0	µg/L	10.00		119	70-130				
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.00		116	70-130				
1,4-Dichlorobenzene	11.3	1.0	µg/L	10.00		113	70-130				
Dichlorodifluoromethane (Freon 12)	12.4	2.0	µg/L	10.00		124	40-160			V-20	†
1,1-Dichloroethane	11.5	1.0	µg/L	10.00		115	70-130				
1,2-Dichloroethane	10.1	1.0	µg/L	10.00		101	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 B390494 - SW-846 5030B											
LCS (B390494-BS1)				Prepared: 10/25/24 Analyzed: 10/28/24							
1,1-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130				
cis-1,2-Dichloroethylene	11.4	1.0	µg/L	10.00		114	70-130				
trans-1,2-Dichloroethylene	11.5	1.0	µg/L	10.00		115	70-130				
1,2-Dichloropropane	11.0	1.0	µg/L	10.00		110	70-130				
cis-1,3-Dichloropropene	11.4	0.50	µg/L	10.00		114	70-130				
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112	70-130				
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.00		107	70-130				
Ethanol	112	50	µg/L	100.0		112	40-160				
Ethylbenzene	11.2	1.0	µg/L	10.00		112	70-130				
2-Hexanone (MBK)	116	10	µg/L	100.0		116	70-160			R-05	†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.00		116	70-130				
p-Isopropyltoluene (p-Cymene)	11.3	1.0	µg/L	10.00		113	70-130				
Methyl Acetate	11.1	1.0	µg/L	10.00		111	70-130				
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.00		108	70-130				
Methyl Cyclohexane	10.8	1.0	µg/L	10.00		108	70-130				
Methylene Chloride	11.2	5.0	µg/L	10.00		112	70-130				
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100.0		114	70-160				†
Naphthalene	11.2	2.0	µg/L	10.00		112	40-130				†
n-Propylbenzene	11.6	1.0	µg/L	10.00		116	70-130				
Styrene	11.5	1.0	µg/L	10.00		115	70-130				
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.00		102	70-130				
Tetrachloroethylene	11.5	1.0	µg/L	10.00		115	70-130				
Toluene	11.6	1.0	µg/L	10.00		116	70-130				
1,2,3-Trichlorobenzene	12.4	5.0	µg/L	10.00		124	70-130				
1,2,4-Trichlorobenzene	11.7	1.0	µg/L	10.00		117	70-130				
1,1,1-Trichloroethane	11.8	1.0	µg/L	10.00		118	70-130				
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.00		112	70-130				
Trichloroethylene	11.4	1.0	µg/L	10.00		114	70-130				
Trichlorofluoromethane (Freon 11)	11.8	2.0	µg/L	10.00		118	70-130			V-20	
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)	11.8	1.0	µg/L	10.00		118	70-130				
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.00		110	70-130				
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.00		114	70-130				
Vinyl Chloride	11.4	2.0	µg/L	10.00		114	40-160				†
m+p Xylene	23.2	2.0	µg/L	20.00		116	70-130				
o-Xylene	10.2	1.0	µg/L	10.00		102	70-130				
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.00		103	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.00		102	70-130				
LCS Dup (B390494-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24							
Acetone	87.4	50	µg/L	100.0		87.4	70-160	9.52	25		†
tert-Amyl Alcohol (TAA)	105	5.0	µg/L	100.0		105	70-130	10.3	25		
tert-Amyl Ethyl Ether (TAEE)	9.78	0.50	µg/L	10.00		97.8	70-130	7.86	25		
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.00		103	70-130	5.12	25		
Benzene	11.1	1.0	µg/L	10.00		111	70-130	3.02	25		
Bromochloromethane	11.2	1.0	µg/L	10.00		112	70-130	1.50	25		
Bromodichloromethane	11.0	0.50	µg/L	10.00		110	70-130	2.42	25		
Bromoform	11.6	1.0	µg/L	10.00		116	70-130	0.00	25		
Bromomethane	10.6	2.0	µg/L	10.00		106	40-160	11.8	25		†
2-Butanone (MEK)	89.8	20	µg/L	100.0		89.8	40-160	7.54	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 B390494 - SW-846 5030B											
LCS Dup (B390494-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24							
tert-Butyl Alcohol (TBA)	103	20	µg/L	100.0		103	40-160	8.30	25		†
n-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	10.9	25		
sec-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	6.33	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	1.45	25		
tert-Butyl Ethyl Ether (TBEE)	10.5	0.50	µg/L	10.00		105	70-130	1.33	25		
Carbon Disulfide	112	5.0	µg/L	100.0		112	70-130	0.440	25		
Carbon Tetrachloride	11.9	5.0	µg/L	10.00		119	70-130	1.34	25		
Chlorobenzene	10.4	1.0	µg/L	10.00		104	70-130	9.32	25		
Chlorodibromomethane	10.7	0.50	µg/L	10.00		107	70-130	7.75	25		
Chloroethane	9.93	2.0	µg/L	10.00		99.3	70-130	0.101	25		
Chloroform	10.7	2.0	µg/L	10.00		107	70-130	1.03	25		
Chloromethane	9.52	2.0	µg/L	10.00		95.2	40-160	3.61	25		†
Cyclohexane	10.7	5.0	µg/L	10.00		107	70-130	3.85	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.80	5.0	µg/L	10.00		88.0	70-130	17.1	25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.00		105	70-130	6.26	25		
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130	7.74	25		
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	7.41	25		
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130	5.35	25		
Dichlorodifluoromethane (Freon 12)	11.8	2.0	µg/L	10.00		118	40-160	4.86	25	V-20	†
1,1-Dichloroethane	11.2	1.0	µg/L	10.00		112	70-130	2.12	25		
1,2-Dichloroethane	9.74	1.0	µg/L	10.00		97.4	70-130	3.23	25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	3.07	25		
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130	4.40	25		
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	2.82	25		
1,2-Dichloropropane	10.5	1.0	µg/L	10.00		105	70-130	4.85	25		
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130	11.1	25		
trans-1,3-Dichloropropene	9.86	0.50	µg/L	10.00		98.6	70-130	12.5	25		
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.00		104	70-130	3.32	25		
Ethanol	110	50	µg/L	100.0		110	40-160	1.31	25		
Ethylbenzene	11.5	1.0	µg/L	10.00		115	70-130	3.44	25		
2-Hexanone (MBK)	86.6	10	µg/L	100.0		86.6	70-160	**29.4**	* 25	R-05	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00		101	70-130	13.5	25		
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.00		105	70-130	7.23	25		
Methyl Acetate	10.8	1.0	µg/L	10.00		108	70-130	3.02	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.00		102	70-130	5.69	25		
Methyl Cyclohexane	9.92	1.0	µg/L	10.00		99.2	70-130	8.86	25		
Methylene Chloride	11.0	5.0	µg/L	10.00		110	70-130	1.53	25		
4-Methyl-2-pentanone (MIBK)	89.7	10	µg/L	100.0		89.7	70-160	23.8	25		†
Naphthalene	10.2	2.0	µg/L	10.00		102	40-130	9.92	25		†
n-Propylbenzene	10.5	1.0	µg/L	10.00		105	70-130	10.4	25		
Styrene	10.6	1.0	µg/L	10.00		106	70-130	8.08	25		
1,1,2,2-Tetrachloroethane	9.91	0.50	µg/L	10.00		99.1	70-130	2.79	25		
Tetrachloroethylene	11.2	1.0	µg/L	10.00		112	70-130	2.29	25		
Toluene	10.4	1.0	µg/L	10.00		104	70-130	11.0	25		
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.00		115	70-130	7.46	25		
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	6.72	25		
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.00		115	70-130	2.49	25		
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.00		101	70-130	10.4	25		
Trichloroethylene	11.1	1.0	µg/L	10.00		111	70-130	2.59	25		
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.00		114	70-130	3.19	25	V-20	
1,2,3-Trichloropropane	9.76	2.0	µg/L	10.00		97.6	70-130	10.9	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 B390494 - SW-846 5030B										
LCS Dup (B390494-BSD1)				Prepared: 10/25/24 Analyzed: 10/28/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.00		113	70-130	4.32	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130	6.94	25	
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.00		102	70-130	10.9	25	
Vinyl Chloride	11.2	2.0	µg/L	10.00		112	40-160	2.21	25	†
m+p Xylene	23.3	2.0	µg/L	20.00		117	70-130	0.344	25	
o-Xylene	10.2	1.0	µg/L	10.00		102	70-130	0.785	25	
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200	0.00		
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.00		103	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*23.2*		µg/L	25.00		93.0	70-130			
Batch B390650 - SW-846 5035										
Blank (B390650-BLK1)				Prepared & Analyzed: 10/28/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							

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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 B390650 - SW-846 5035										
Blank (B390650-BLK1)				Prepared & Analyzed: 10/28/24						
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0530*		mg/Kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0474*		mg/Kg wet	0.05000		94.8	70-130			
LCS (B390650-BS1)				Prepared & Analyzed: 10/28/24						
Acetone	0.174	0.10	mg/Kg wet	0.2000		87.2	70-160			†
tert-Amyl Alcohol (TAA)	0.201	0.020	mg/Kg wet	0.2000		100	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0180	0.0020	mg/Kg wet	0.02000		90.0	70-130			
tert-Amyl Methyl Ether (TAME)	0.0193	0.0010	mg/Kg wet	0.02000		96.3	70-130			
Benzene	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130			
Bromochloromethane	0.0227	0.0020	mg/Kg wet	0.02000		113	70-130			
Bromodichloromethane	0.0184	0.0020	mg/Kg wet	0.02000		92.0	70-130			
Bromoform	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130			
Bromomethane	0.0190	0.010	mg/Kg wet	0.02000		94.8	40-130			†
2-Butanone (MEK)	0.178	0.040	mg/Kg wet	0.2000		88.8	70-160			†
tert-Butyl Alcohol (TBA)	0.191	0.10	mg/Kg wet	0.2000		95.6	40-130			†
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.02000		91.8	70-130			
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.4	70-130			
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.7	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0185	0.0010	mg/Kg wet	0.02000		92.6	70-130			
Carbon Disulfide	0.188	0.020	mg/Kg wet	0.2000		94.0	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-130			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B390650 - SW-846 5035											
LCS (B390650-BS1)				Prepared & Analyzed: 10/28/24							
Chlorobenzene	0.0186	0.0020	mg/Kg wet	0.02000		93.2	70-130				
Chlorodibromomethane	0.0197	0.0010	mg/Kg wet	0.02000		98.6	70-130				
Chloroethane	0.0184	0.020	mg/Kg wet	0.02000		92.1	70-130			J	
Chloroform	0.0188	0.0040	mg/Kg wet	0.02000		94.2	70-130				
Chloromethane	0.0155	0.010	mg/Kg wet	0.02000		77.6	70-130				
Cyclohexane	0.0175	0.010	mg/Kg wet	0.02000		87.3	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0161	0.0040	mg/Kg wet	0.02000		80.5	70-130				
1,2-Dibromoethane (EDB)	0.0179	0.0010	mg/Kg wet	0.02000		89.3	70-130				
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.02000		94.0	70-130				
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.02000		94.9	70-130				
1,4-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.02000		91.4	70-130				
Dichlorodifluoromethane (Freon 12)	0.0145	0.020	mg/Kg wet	0.02000		72.5	40-160			J, V-05	†
1,1-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.02000		90.3	70-130				
1,2-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.02000		102	70-130				
1,1-Dichloroethylene	0.0178	0.0040	mg/Kg wet	0.02000		89.2	70-130				
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.02000		93.2	70-130				
trans-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.02000		90.5	70-130				
1,2-Dichloropropane	0.0166	0.0020	mg/Kg wet	0.02000		83.0	70-130				
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.02000		98.5	70-130				
trans-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.02000		95.0	70-130				
Diisopropyl Ether (DIPE)	0.0182	0.0010	mg/Kg wet	0.02000		90.9	70-130				
Ethylbenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.3	70-130				
2-Hexanone (MBK)	0.181	0.020	mg/Kg wet	0.2000		90.3	70-160				†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.02000		97.4	70-130				
p-Isopropyltoluene (p-Cymene)	0.0192	0.0020	mg/Kg wet	0.02000		95.9	70-130				
Methyl Acetate	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.02000		96.7	70-130				
Methyl Cyclohexane	0.0179	0.0020	mg/Kg wet	0.02000		89.5	70-130				
Methylene Chloride	0.0176	0.020	mg/Kg wet	0.02000		87.9	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.179	0.020	mg/Kg wet	0.2000		89.3	70-160				†
Naphthalene	0.0165	0.0040	mg/Kg wet	0.02000		82.7	40-130				†
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130				
Styrene	0.0191	0.0020	mg/Kg wet	0.02000		95.7	70-130				
1,1,2,2-Tetrachloroethane	0.0206	0.0010	mg/Kg wet	0.02000		103	70-130				
Tetrachloroethylene	0.0178	0.0020	mg/Kg wet	0.02000		89.0	70-130				
Toluene	0.0169	0.0020	mg/Kg wet	0.02000		84.3	70-130				
1,2,3-Trichlorobenzene	0.0167	0.0020	mg/Kg wet	0.02000		83.3	70-130				
1,2,4-Trichlorobenzene	0.0163	0.0020	mg/Kg wet	0.02000		81.3	70-130				
1,1,1-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.02000		93.9	70-130				
1,1,2-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.02000		98.4	70-130				
Trichloroethylene	0.0178	0.0020	mg/Kg wet	0.02000		89.2	70-130				
Trichlorofluoromethane (Freon 11)	0.0188	0.010	mg/Kg wet	0.02000		94.0	70-130				
1,2,3-Trichloropropane	0.0213	0.0020	mg/Kg wet	0.02000		106	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0184	0.010	mg/Kg wet	0.02000		91.8	70-130				
1,2,4-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130				
1,3,5-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.6	70-130				
Vinyl Chloride	0.0167	0.010	mg/Kg wet	0.02000		83.3	40-130				†
m+p Xylene	0.0377	0.0040	mg/Kg wet	0.04000		94.2	70-130				
o-Xylene	0.0196	0.0020	mg/Kg wet	0.02000		98.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0502*		mg/Kg wet	0.05000		100	70-130				
Surrogate: Toluene-d8	*0.0488*		mg/Kg wet	0.05000		97.5	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 B390650 - SW-846 5035											
LCS (B390650-BS1)				Prepared & Analyzed: 10/28/24							
Surrogate: 4-Bromofluorobenzene	*0.0484*		mg/Kg wet	0.05000		96.9	70-130				
LCS (B390650-BS2)				Prepared & Analyzed: 10/28/24							
Ethanol	0.105	0.20	mg/Kg wet	0.2000		52.5	40-160			V-05, J	
Surrogate: 1,2-Dichloroethane-d4	*0.0516*		mg/Kg wet	0.05000		103	70-130				
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.05000		99.3	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0483*		mg/Kg wet	0.05000		96.5	70-130				
LCS Dup (B390650-BSD1)				Prepared & Analyzed: 10/28/24							
Acetone	0.168	0.10	mg/Kg wet	0.2000		83.9	70-160	3.90	25		†
tert-Amyl Alcohol (TAA)	0.196	0.020	mg/Kg wet	0.2000		97.9	70-130	2.56	25		
tert-Amyl Ethyl Ether (TAEE)	0.0182	0.0020	mg/Kg wet	0.02000		91.0	70-130	1.10	25		
tert-Amyl Methyl Ether (TAME)	0.0190	0.0010	mg/Kg wet	0.02000		95.2	70-130	1.15	25		
Benzene	0.0184	0.0020	mg/Kg wet	0.02000		92.2	70-130	1.61	25		
Bromochloromethane	0.0214	0.0020	mg/Kg wet	0.02000		107	70-130	5.90	25		
Bromodichloromethane	0.0185	0.0020	mg/Kg wet	0.02000		92.7	70-130	0.758	25		
Bromoform	0.0199	0.0020	mg/Kg wet	0.02000		99.5	70-130	0.801	25		
Bromomethane	0.0198	0.010	mg/Kg wet	0.02000		99.1	40-130	4.44	25		†
2-Butanone (MEK)	0.175	0.040	mg/Kg wet	0.2000		87.5	70-160	1.46	25		†
tert-Butyl Alcohol (TBA)	0.177	0.10	mg/Kg wet	0.2000		88.4	40-130	7.82	25		†
n-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.02000		90.7	70-130	1.21	25		
sec-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.02000		92.0	70-130	1.51	25		
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.2	70-160	1.53	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0183	0.0010	mg/Kg wet	0.02000		91.5	70-130	1.19	25		
Carbon Disulfide	0.182	0.020	mg/Kg wet	0.2000		91.2	70-130	3.02	25		
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.02000		93.1	70-130	2.23	25		
Chlorobenzene	0.0181	0.0020	mg/Kg wet	0.02000		90.6	70-130	2.83	25		
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.02000		97.1	70-130	1.53	25		
Chloroethane	0.0179	0.020	mg/Kg wet	0.02000		89.7	70-130	2.64	25	J	
Chloroform	0.0193	0.0040	mg/Kg wet	0.02000		96.6	70-130	2.52	25		
Chloromethane	0.0152	0.010	mg/Kg wet	0.02000		75.8	70-130	2.35	25		
Cyclohexane	0.0171	0.010	mg/Kg wet	0.02000		85.7	70-130	1.85	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0188	0.0040	mg/Kg wet	0.02000		93.8	70-130	15.3	25		
1,2-Dibromoethane (EDB)	0.0190	0.0010	mg/Kg wet	0.02000		94.9	70-130	6.08	25		
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.02000		93.8	70-130	0.213	25		
1,3-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.02000		92.9	70-130	2.13	25		
1,4-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.6	70-130	2.38	25		
Dichlorodifluoromethane (Freon 12)	0.0145	0.020	mg/Kg wet	0.02000		72.3	40-160	0.276	25	J, V-05	†
1,1-Dichloroethane	0.0177	0.0020	mg/Kg wet	0.02000		88.5	70-130	2.01	25		
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130	0.882	25		
1,1-Dichloroethylene	0.0172	0.0040	mg/Kg wet	0.02000		85.9	70-130	3.77	25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.02000		92.1	70-130	1.19	25		
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.02000		88.4	70-130	2.35	25		
1,2-Dichloropropane	0.0174	0.0020	mg/Kg wet	0.02000		87.0	70-130	4.71	25		
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.02000		94.6	70-130	4.04	25		
trans-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.02000		94.4	70-130	0.634	25		
Diisopropyl Ether (DIPE)	0.0173	0.0010	mg/Kg wet	0.02000		86.5	70-130	4.96	25		
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.02000		93.1	70-130	1.28	25		
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.2000		89.4	70-160	1.01	25		†
Isopropylbenzene (Cumene)	0.0184	0.0020	mg/Kg wet	0.02000		92.0	70-130	5.70	25		
p-Isopropyltoluene (p-Cymene)	0.0190	0.0020	mg/Kg wet	0.02000		94.8	70-130	1.15	25		
Methyl Acetate	0.0169	0.0020	mg/Kg wet	0.02000		84.5	70-130	7.30	25		

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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 B390650 - SW-846 5035											
LCS Dup (B390650-BSD1)				Prepared & Analyzed: 10/28/24							
Methyl tert-Butyl Ether (MTBE)	0.0192	0.0040	mg/Kg wet	0.02000		96.0	70-130	0.727	25		
Methyl Cyclohexane	0.0179	0.0020	mg/Kg wet	0.02000		89.6	70-130	0.112	25		
Methylene Chloride	0.0173	0.020	mg/Kg wet	0.02000		86.6	40-160	1.49	25	J	†
4-Methyl-2-pentanone (MIBK)	0.178	0.020	mg/Kg wet	0.2000		89.2	70-160	0.112	25		†
Naphthalene	0.0166	0.0040	mg/Kg wet	0.02000		82.8	40-130	0.121	25		†
n-Propylbenzene	0.0184	0.0020	mg/Kg wet	0.02000		92.2	70-130	2.36	25		
Styrene	0.0195	0.0020	mg/Kg wet	0.02000		97.4	70-130	1.76	25		
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.02000		98.5	70-130	4.66	25		
Tetrachloroethylene	0.0173	0.0020	mg/Kg wet	0.02000		86.3	70-130	3.08	25		
Toluene	0.0168	0.0020	mg/Kg wet	0.02000		83.9	70-130	0.476	25		
1,2,3-Trichlorobenzene	0.0169	0.0020	mg/Kg wet	0.02000		84.7	70-130	1.67	25		
1,2,4-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.02000		81.9	70-130	0.735	25		
1,1,1-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.02000		90.0	70-130	4.24	25		
1,1,2-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130	3.40	25		
Trichloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		91.0	70-130	2.00	25		
Trichlorofluoromethane (Freon 11)	0.0185	0.010	mg/Kg wet	0.02000		92.7	70-130	1.39	25		
1,2,3-Trichloropropane	0.0198	0.0020	mg/Kg wet	0.02000		99.2	70-130	7.00	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0182	0.010	mg/Kg wet	0.02000		91.0	70-130	0.875	25		
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.02000		97.3	70-130	0.819	25		
1,3,5-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.3	70-130	0.321	25		
Vinyl Chloride	0.0160	0.010	mg/Kg wet	0.02000		80.0	40-130	4.04	25		†
m+p Xylene	0.0372	0.0040	mg/Kg wet	0.04000		93.0	70-130	1.28	25		
o-Xylene	0.0192	0.0020	mg/Kg wet	0.02000		95.8	70-130	2.47	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0500*		mg/Kg wet	0.05000		100	70-130				
Surrogate: Toluene-d8	*0.0500*		mg/Kg wet	0.05000		99.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.05000		98.3	70-130				
LCS Dup (B390650-BSD2)				Prepared & Analyzed: 10/28/24							
Ethanol	0.108	0.20	mg/Kg wet	0.2000		53.9	40-160	2.54	25	V-05, J	
Surrogate: 1,2-Dichloroethane-d4	*0.0516*		mg/Kg wet	0.05000		103	70-130				
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.05000		99.3	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0488*		mg/Kg wet	0.05000		97.7	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 B390568 - SW-846 3510C										
Blank (B390568-BLK1)				Prepared: 10/26/24 Analyzed: 10/30/24						
2,3,4,6-Tetrachlorophenol	ND	2.0	µg/L							
Atrazine	ND	2.0	µg/L							
Benzaldehyde	ND	1.0	µg/L							
Biphenyl	ND	2.0	µg/L							
Caprolactam	ND	1.0	µg/L							L-04, V-06
Acenaphthene	ND	0.50	µg/L							
Acenaphthylene	ND	0.50	µg/L							
Acetophenone	ND	1.0	µg/L							
Aniline	ND	2.0	µg/L							
Anthracene	ND	0.50	µg/L							
Benzo(a)anthracene	ND	0.50	µg/L							
Benzo(a)pyrene	ND	0.50	µg/L							
Benzo(b)fluoranthene	ND	0.50	µg/L							
Benzo(g,h,i)perylene	ND	0.50	µg/L							
Benzo(k)fluoranthene	ND	0.50	µg/L							
Bis(2-chloroethoxy)methane	ND	1.0	µg/L							
Bis(2-chloroethyl)ether	ND	1.0	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	1.0	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	1.0	µg/L							
4-Bromophenylphenylether	ND	1.0	µg/L							
Butylbenzylphthalate	ND	1.0	µg/L							
Carbazole	ND	1.0	µg/L							
4-Chloroaniline	ND	1.0	µg/L							
4-Chloro-3-methylphenol	ND	1.0	µg/L							
2-Chloronaphthalene	ND	1.0	µg/L							
2-Chlorophenol	ND	1.0	µg/L							
4-Chlorophenylphenylether	ND	1.0	µg/L							
Chrysene	ND	0.50	µg/L							
Dibenz(a,h)anthracene	ND	0.50	µg/L							V-04
Dibenzofuran	ND	0.50	µg/L							
Di-n-butylphthalate	ND	1.0	µg/L							
3,3-Dichlorobenzidine	ND	1.0	µg/L							
2,4-Dichlorophenol	ND	1.0	µg/L							
Diethylphthalate	ND	1.0	µg/L							
2,4-Dimethylphenol	ND	1.0	µg/L							
Dimethylphthalate	ND	1.0	µg/L							
4,6-Dinitro-2-methylphenol	ND	2.0	µg/L							
2,4-Dinitrophenol	ND	1.0	µg/L							V-04
2,4-Dinitrotoluene	ND	1.0	µg/L							
2,6-Dinitrotoluene	ND	1.0	µg/L							
Di-n-octylphthalate	ND	1.0	µg/L							V-04
Fluoranthene	ND	0.50	µg/L							
Fluorene	ND	0.50	µg/L							
Hexachlorobenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
Hexachlorocyclopentadiene	ND	1.0	µg/L							
Hexachloroethane	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	0.50	µg/L							V-04
Isophorone	ND	1.0	µg/L							
1-Methylnaphthalene	ND	0.50	µg/L							
2-Methylnaphthalene	ND	0.50	µg/L							
2-Methylphenol	ND	1.0	µg/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B390568 - SW-846 3510C											
Blank (B390568-BLK1)				Prepared: 10/26/24 Analyzed: 10/30/24							
3/4-Methylphenol	ND	1.0	µg/L								
Naphthalene	ND	0.50	µg/L								
2-Nitroaniline	ND	1.0	µg/L								
3-Nitroaniline	ND	1.0	µg/L								
4-Nitroaniline	ND	1.0	µg/L								
Nitrobenzene	ND	1.0	µg/L								
2-Nitrophenol	ND	1.0	µg/L								
4-Nitrophenol	ND	1.0	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	1.0	µg/L								
N-Nitrosodi-n-propylamine	ND	1.0	µg/L								
Pentachlorophenol	ND	1.0	µg/L								
Phenanthrene	ND	0.50	µg/L								
Phenol	ND	1.0	µg/L								
Pyrene	ND	0.50	µg/L								
Pyridine	ND	2.0	µg/L								V-34
1,2,4,5-Tetrachlorobenzene	ND	1.0	µg/L								
2,4,5-Trichlorophenol	ND	1.0	µg/L								
2,4,6-Trichlorophenol	ND	1.0	µg/L								
Surrogate: 2-Fluorophenol	*23.0*		µg/L	40.00		57.6		15-110			
Surrogate: Phenol-d6	*15.6*		µg/L	40.00		38.9		15-110			
Surrogate: Nitrobenzene-d5	*16.5*		µg/L	20.00		82.7		30-130			
Surrogate: 2-Fluorobiphenyl	*15.2*		µg/L	20.00		75.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*39.6*		µg/L	40.00		99.0		15-110			
Surrogate: p-Terphenyl-d14	*17.9*		µg/L	20.00		89.7		30-130			
LCS (B390568-BS1)				Prepared: 10/26/24 Analyzed: 10/30/24							
2,3,4,6-Tetrachlorophenol	8.72	2.0	µg/L	10.00		87.2		40-140			
Atrazine	11.5	2.0	µg/L	10.00		115		40-140			
Benzaldehyde	9.75	1.0	µg/L	10.00		97.5		40-140			
Biphenyl	9.28	2.0	µg/L	10.00		92.8		40-140			
Caprolactam	3.14	1.0	µg/L	10.00		**31.4**	*	40-140			L-04, V-06
Acenaphthene	7.62	0.50	µg/L	10.00		76.2		40-140			
Acenaphthylene	8.00	0.50	µg/L	10.00		80.0		40-140			
Acetophenone	9.34	1.0	µg/L	10.00		93.4		40-140			
Aniline	6.01	2.0	µg/L	10.00		60.1		40-140			
Anthracene	8.02	0.50	µg/L	10.00		80.2		40-140			
Benzo(a)anthracene	7.97	0.50	µg/L	10.00		79.7		40-140			
Benzo(a)pyrene	7.97	0.50	µg/L	10.00		79.7		40-140			
Benzo(b)fluoranthene	8.23	0.50	µg/L	10.00		82.3		40-140			
Benzo(g,h,i)perylene	8.49	0.50	µg/L	10.00		84.9		40-140			
Benzo(k)fluoranthene	8.21	0.50	µg/L	10.00		82.1		40-140			
Bis(2-chloroethoxy)methane	8.08	1.0	µg/L	10.00		80.8		40-140			
Bis(2-chloroethyl)ether	7.78	1.0	µg/L	10.00		77.8		40-140			
2,2'-oxybis(1-Chloropropane)	8.15	1.0	µg/L	10.00		81.5		40-140			
Bis(2-Ethylhexyl)phthalate	7.75	1.0	µg/L	10.00		77.5		40-140			
4-Bromophenylphenylether	7.61	1.0	µg/L	10.00		76.1		40-140			
Butylbenzylphthalate	8.20	1.0	µg/L	10.00		82.0		40-140			
Carbazole	8.08	1.0	µg/L	10.00		80.8		40-140			
4-Chloroaniline	7.86	1.0	µg/L	10.00		78.6		40-140			
4-Chloro-3-methylphenol	8.12	1.0	µg/L	10.00		81.2		30-130			
2-Chloronaphthalene	6.44	1.0	µg/L	10.00		64.4		40-140			
2-Chlorophenol	7.12	1.0	µg/L	10.00		71.2		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 B390568 - SW-846 3510C												
LCS (B390568-BS1)				Prepared: 10/26/24 Analyzed: 10/30/24								
4-Chlorophenylphenylether	7.87	1.0	µg/L	10.00		78.7		40-140				
Chrysene	7.72	0.50	µg/L	10.00		77.2		40-140				
Dibenz(a,h)anthracene	8.27	0.50	µg/L	10.00		82.7		40-140			V-04	
Dibenzofuran	8.09	0.50	µg/L	10.00		80.9		40-140				
Di-n-butylphthalate	7.60	1.0	µg/L	10.00		76.0		40-140				
3,3-Dichlorobenzidine	3.96	1.0	µg/L	10.00		**39.6**	*	40-140			L-07	
2,4-Dichlorophenol	7.66	1.0	µg/L	10.00		76.6		30-130				
Diethylphthalate	7.82	1.0	µg/L	10.00		78.2		40-140				
2,4-Dimethylphenol	7.81	1.0	µg/L	10.00		78.1		30-130				
Dimethylphthalate	8.11	1.0	µg/L	10.00		81.1		40-140				
4,6-Dinitro-2-methylphenol	8.02	2.0	µg/L	10.00		80.2		30-130				
2,4-Dinitrophenol	6.89	1.0	µg/L	10.00		68.9		30-130			V-04	
2,4-Dinitrotoluene	8.16	1.0	µg/L	10.00		81.6		40-140				
2,6-Dinitrotoluene	8.38	1.0	µg/L	10.00		83.8		40-140				
Di-n-octylphthalate	7.63	1.0	µg/L	10.00		76.3		40-140			V-04	
Fluoranthene	8.14	0.50	µg/L	10.00		81.4		40-140				
Fluorene	8.06	0.50	µg/L	10.00		80.6		40-140				
Hexachlorobenzene	8.18	1.0	µg/L	10.00		81.8		40-140				
Hexachlorobutadiene	5.73	1.0	µg/L	10.00		57.3		40-140				
Hexachlorocyclopentadiene	6.96	1.0	µg/L	10.00		69.6		30-140				†
Hexachloroethane	4.75	1.0	µg/L	10.00		47.5		40-140				
Indeno(1,2,3-cd)pyrene	8.58	0.50	µg/L	10.00		85.8		40-140			V-04	
Isophorone	8.52	1.0	µg/L	10.00		85.2		40-140				
1-Methylnaphthalene	7.00	0.50	µg/L	10.00		70.0		40-140				
2-Methylnaphthalene	6.69	0.50	µg/L	10.00		66.9		40-140				
2-Methylphenol	6.87	1.0	µg/L	10.00		68.7		30-130				
3/4-Methylphenol	6.62	1.0	µg/L	10.00		66.2		30-130				
Naphthalene	6.66	0.50	µg/L	10.00		66.6		40-140				
2-Nitroaniline	9.98	1.0	µg/L	10.00		99.8		40-140				
3-Nitroaniline	8.33	1.0	µg/L	10.00		83.3		40-140				
4-Nitroaniline	8.04	1.0	µg/L	10.00		80.4		40-140				
Nitrobenzene	7.64	1.0	µg/L	10.00		76.4		40-140				
2-Nitrophenol	7.38	1.0	µg/L	10.00		73.8		30-130				
4-Nitrophenol	4.71	1.0	µg/L	10.00		47.1		10-130				†
N-Nitrosodiphenylamine/Diphenylamine	7.50	1.0	µg/L	10.00		75.0		40-140				
N-Nitrosodi-n-propylamine	7.47	1.0	µg/L	10.00		74.7		40-140				
Pentachlorophenol	7.37	1.0	µg/L	10.00		73.7		30-130				
Phenanthrene	7.85	0.50	µg/L	10.00		78.5		40-140				
Phenol	3.94	1.0	µg/L	10.00		39.4		20-130				†
Pyrene	8.12	0.50	µg/L	10.00		81.2		40-140				
Pyridine	1.89	2.0	µg/L	10.00		18.9		10-140			J, V-34	†
1,2,4,5-Tetrachlorobenzene	8.91	1.0	µg/L	10.00		89.1		40-140				
2,4,5-Trichlorophenol	8.22	1.0	µg/L	10.00		82.2		30-130				
2,4,6-Trichlorophenol	7.76	1.0	µg/L	10.00		77.6		30-130				
Surrogate: 2-Fluorophenol	*24.1*		µg/L	40.00		60.4		15-110				
Surrogate: Phenol-d6	*17.9*		µg/L	40.00		44.8		15-110				
Surrogate: Nitrobenzene-d5	*16.6*		µg/L	20.00		83.0		30-130				
Surrogate: 2-Fluorobiphenyl	*16.4*		µg/L	20.00		81.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*39.3*		µg/L	40.00		98.3		15-110				
Surrogate: p-Terphenyl-d14	*17.7*		µg/L	20.00		88.3		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 B390568 - SW-846 3510C												
LCS Dup (B390568-BSD1)				Prepared: 10/26/24 Analyzed: 10/30/24								
2,3,4,6-Tetrachlorophenol	9.44	2.0	µg/L	10.00		94.4		40-140	8.01	20		
Atrazine	12.4	2.0	µg/L	10.00		124		40-140	7.19	20		
Benzaldehyde	10.5	1.0	µg/L	10.00		105		40-140	7.43	20		
Biphenyl	9.94	2.0	µg/L	10.00		99.4		40-140	6.87	20		
Caprolactam	3.53	1.0	µg/L	10.00		**35.3**	*	40-140	11.8	20	L-04, V-06	
Acenaphthene	8.27	0.50	µg/L	10.00		82.7		40-140	8.19	20		
Acenaphthylene	8.55	0.50	µg/L	10.00		85.5		40-140	6.58	20		
Acetophenone	10.3	1.0	µg/L	10.00		103		40-140	9.93	20		
Aniline	7.04	2.0	µg/L	10.00		70.4		40-140	15.8	50		‡
Anthracene	8.82	0.50	µg/L	10.00		88.2		40-140	9.55	20		
Benzo(a)anthracene	8.61	0.50	µg/L	10.00		86.1		40-140	7.78	20		
Benzo(a)pyrene	8.81	0.50	µg/L	10.00		88.1		40-140	10.0	20		
Benzo(b)fluoranthene	8.84	0.50	µg/L	10.00		88.4		40-140	7.11	20		
Benzo(g,h,i)perylene	9.73	0.50	µg/L	10.00		97.3		40-140	13.5	20		
Benzo(k)fluoranthene	8.77	0.50	µg/L	10.00		87.7		40-140	6.55	20		
Bis(2-chloroethoxy)methane	8.54	1.0	µg/L	10.00		85.4		40-140	5.43	20		
Bis(2-chloroethyl)ether	8.40	1.0	µg/L	10.00		84.0		40-140	7.79	20		
2,2'-oxybis(1-Chloropropane)	8.63	1.0	µg/L	10.00		86.3		40-140	5.71	20		
Bis(2-Ethylhexyl)phthalate	8.46	1.0	µg/L	10.00		84.6		40-140	8.82	20		
4-Bromophenylphenylether	8.43	1.0	µg/L	10.00		84.3		40-140	10.2	20		
Butylbenzylphthalate	8.89	1.0	µg/L	10.00		88.9		40-140	8.03	20		
Carbazole	8.82	1.0	µg/L	10.00		88.2		40-140	8.72	20		
4-Chloroaniline	8.41	1.0	µg/L	10.00		84.1		40-140	6.71	20		
4-Chloro-3-methylphenol	8.71	1.0	µg/L	10.00		87.1		30-130	7.00	20		
2-Chloronaphthalene	7.67	1.0	µg/L	10.00		76.7		40-140	17.4	20		
2-Chlorophenol	7.50	1.0	µg/L	10.00		75.0		30-130	5.23	20		
4-Chlorophenylphenylether	8.45	1.0	µg/L	10.00		84.5		40-140	7.15	20		
Chrysene	8.43	0.50	µg/L	10.00		84.3		40-140	8.79	20		
Dibenz(a,h)anthracene	9.22	0.50	µg/L	10.00		92.2		40-140	10.9	20	V-04	
Dibenzofuran	8.70	0.50	µg/L	10.00		87.0		40-140	7.27	20		
Di-n-butylphthalate	8.41	1.0	µg/L	10.00		84.1		40-140	10.1	20		
3,3-Dichlorobenzidine	4.39	1.0	µg/L	10.00		43.9		40-140	10.3	20		
2,4-Dichlorophenol	8.28	1.0	µg/L	10.00		82.8		30-130	7.85	20		
Diethylphthalate	8.58	1.0	µg/L	10.00		85.8		40-140	9.33	20		
2,4-Dimethylphenol	8.33	1.0	µg/L	10.00		83.3		30-130	6.44	20		
Dimethylphthalate	8.60	1.0	µg/L	10.00		86.0		40-140	5.78	50		‡
4,6-Dinitro-2-methylphenol	8.26	2.0	µg/L	10.00		82.6		30-130	2.83	50		‡
2,4-Dinitrophenol	7.53	1.0	µg/L	10.00		75.3		30-130	8.79	50	V-04	‡
2,4-Dinitrotoluene	9.13	1.0	µg/L	10.00		91.3		40-140	11.2	20		
2,6-Dinitrotoluene	9.02	1.0	µg/L	10.00		90.2		40-140	7.42	20		
Di-n-octylphthalate	8.35	1.0	µg/L	10.00		83.5		40-140	8.98	20	V-04	
Fluoranthene	8.97	0.50	µg/L	10.00		89.7		40-140	9.60	20		
Fluorene	8.83	0.50	µg/L	10.00		88.3		40-140	9.14	20		
Hexachlorobenzene	8.75	1.0	µg/L	10.00		87.5		40-140	6.78	20		
Hexachlorobutadiene	5.81	1.0	µg/L	10.00		58.1		40-140	1.33	20		
Hexachlorocyclopentadiene	7.54	1.0	µg/L	10.00		75.4		30-140	7.98	50		† ‡
Hexachloroethane	4.87	1.0	µg/L	10.00		48.7		40-140	2.52	50		‡
Indeno(1,2,3-cd)pyrene	9.60	0.50	µg/L	10.00		96.0		40-140	11.3	50	V-04	‡
Isophorone	8.99	1.0	µg/L	10.00		89.9		40-140	5.34	20		
1-Methylnaphthalene	7.39	0.50	µg/L	10.00		73.9		40-140	5.36	20		
2-Methylnaphthalene	7.33	0.50	µg/L	10.00		73.3		40-140	9.18	20		
2-Methylphenol	7.52	1.0	µg/L	10.00		75.2		30-130	9.06	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 B390568 - SW-846 3510C											
LCS Dup (B390568-BSD1)				Prepared: 10/26/24 Analyzed: 10/30/24							
3/4-Methylphenol	7.23	1.0	µg/L	10.00		72.3	30-130	8.79	20		
Naphthalene	7.04	0.50	µg/L	10.00		70.4	40-140	5.42	20		
2-Nitroaniline	10.5	1.0	µg/L	10.00		105	40-140	5.28	20		
3-Nitroaniline	8.86	1.0	µg/L	10.00		88.6	40-140	6.19	20		
4-Nitroaniline	8.73	1.0	µg/L	10.00		87.3	40-140	8.26	20		
Nitrobenzene	8.17	1.0	µg/L	10.00		81.7	40-140	6.70	20		
2-Nitrophenol	8.06	1.0	µg/L	10.00		80.6	30-130	8.85	20		
4-Nitrophenol	4.91	1.0	µg/L	10.00		49.1	10-130	4.26	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	8.28	1.0	µg/L	10.00		82.8	40-140	9.85	20		
N-Nitrosodi-n-propylamine	7.98	1.0	µg/L	10.00		79.8	40-140	6.50	20		
Pentachlorophenol	8.09	1.0	µg/L	10.00		80.9	30-130	9.27	50		‡
Phenanthrene	8.50	0.50	µg/L	10.00		85.0	40-140	8.01	20		
Phenol	4.05	1.0	µg/L	10.00		40.5	20-130	2.55	20		†
Pyrene	8.81	0.50	µg/L	10.00		88.1	40-140	8.13	20		
Pyridine	2.13	2.0	µg/L	10.00		21.3	10-140	12.1	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	9.48	1.0	µg/L	10.00		94.8	40-140	6.21	20		
2,4,5-Trichlorophenol	8.32	1.0	µg/L	10.00		83.2	30-130	1.16	20		
2,4,6-Trichlorophenol	8.55	1.0	µg/L	10.00		85.5	30-130	9.59	50		‡
Surrogate: 2-Fluorophenol	*23.0*		µg/L	40.00		57.6	15-110				
Surrogate: Phenol-d6	*17.1*		µg/L	40.00		42.7	15-110				
Surrogate: Nitrobenzene-d5	*16.0*		µg/L	20.00		79.8	30-130				
Surrogate: 2-Fluorobiphenyl	*15.8*		µg/L	20.00		79.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*39.9*		µg/L	40.00		99.7	15-110				
Surrogate: p-Terphenyl-d14	*17.3*		µg/L	20.00		86.4	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 B390627 - SW-846 3510C										
Blank (B390627-BLK1)				Prepared: 10/28/24 Analyzed: 11/01/24						
1,4-Dioxane	0.57	0.20	µg/L							B
Surrogate: 1,4-Dioxane-d8	*2.55*		µg/L	10.00		25.5	15-110			
LCS (B390627-BS1)				Prepared: 10/28/24 Analyzed: 10/31/24						
1,4-Dioxane	11.2	0.20	µg/L	10.00		112	40-140			B
Surrogate: 1,4-Dioxane-d8	*2.99*		µg/L	10.00		29.9	15-110			
LCS Dup (B390627-BSD1)				Prepared: 10/28/24 Analyzed: 10/31/24						
1,4-Dioxane	12.1	0.20	µg/L	10.00		121	40-140	8.16	30	B
Surrogate: 1,4-Dioxane-d8	*2.21*		µg/L	10.00		22.1	15-110			
Batch B391271 - SW-846 3510C										
Blank (B391271-BLK1)				Prepared: 11/04/24 Analyzed: 11/06/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.97*		µg/L	10.00		29.7	15-110			
LCS (B391271-BS1)				Prepared: 11/04/24 Analyzed: 11/06/24						
1,4-Dioxane	10.3	0.20	µg/L	10.00		103	40-140			
Surrogate: 1,4-Dioxane-d8	*3.02*		µg/L	10.00		30.2	15-110			
LCS Dup (B391271-BSD1)				Prepared: 11/04/24 Analyzed: 11/06/24						
1,4-Dioxane	11.2	0.20	µg/L	10.00		112	40-140	8.32	30	
Surrogate: 1,4-Dioxane-d8	*2.80*		µg/L	10.00		28.0	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 B392050 - Draft Method 1633										
Blank (B392050-BLK1)				Prepared: 11/15/24 Analyzed: 11/18/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							PF-17C
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*80.0*		ng/L	98.02		81.6	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633											
Blank (B392050-BLK1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Surrogate: 13C5-PFPeA	*36.6*		ng/L	49.01		74.6		35-150			
Surrogate: 13C5-PFHxA	*19.0*		ng/L	24.51		77.5		55-150			
Surrogate: 13C4-PFHpA	*20.2*		ng/L	24.51		82.2		55-150			
Surrogate: 13C8-PFOA	*18.1*		ng/L	24.51		73.9		60-140			
Surrogate: 13C9-PFNA	*9.62*		ng/L	12.25		78.5		55-140			
Surrogate: 13C6-PFDA	*10.1*		ng/L	12.25		82.8		50-140			
Surrogate: 13C7-PFUnA	*9.38*		ng/L	12.25		76.6		30-140			
Surrogate: 13C2-PFDoA	*8.69*		ng/L	12.25		70.9		10-150			
Surrogate: 13C2-PFTeDA	*7.75*		ng/L	12.25		63.3		10-130			
Surrogate: 13C3-PFBS	*19.8*		ng/L	24.51		81.0		55-150			
Surrogate: 13C3-PFHxS	*20.3*		ng/L	24.51		82.9		55-150			
Surrogate: 13C8-PFOS	*19.8*		ng/L	24.51		80.9		45-140			
Surrogate: 13C2-4:2FTS	*24.9*		ng/L	49.01		**50.8**	*	60-200			PF-17C
Surrogate: 13C2-6:2FTS	*26.5*		ng/L	49.01		**54.2**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*24.7*		ng/L	49.01		50.4		50-200			
Surrogate: 13C8-PFOSA	*19.5*		ng/L	24.51		79.7		30-130			
Surrogate: D3-NMeFOSA	*15.3*		ng/L	24.51		62.4		15-130			
Surrogate: D5-NEtFOSA	*16.3*		ng/L	24.51		66.6		10-130			
Surrogate: D3-NMeFOSAA	*47.0*		ng/L	49.01		95.9		45-200			
Surrogate: D5-NEtFOSAA	*42.5*		ng/L	49.01		86.7		10-200			
Surrogate: D7-NMeFOSE	*207*		ng/L	245.1		84.4		10-150			
Surrogate: D9-NEtFOSE	*195*		ng/L	245.1		79.7		10-150			
Surrogate: 13C3-HFPO-DA	*88.4*		ng/L	98.02		90.2		25-160			
LCS (B392050-BS1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Perfluorobutanoic acid (PFBA)	108	3.9	ng/L	94.21		115		58-148			
Perfluoropentanoic acid (PFPeA)	52.4	2.0	ng/L	47.10		111		54-152			
Perfluorohexanoic acid (PFHxA)	26.5	0.98	ng/L	23.55		113		55-152			
Perfluoroheptanoic acid (PFHpA)	27.3	0.98	ng/L	23.55		116		54-154			
Perfluorooctanoic acid (PFOA)	27.3	0.98	ng/L	23.55		116		52-161			
Perfluorononanoic acid (PFNA)	26.9	0.98	ng/L	23.55		114		59-149			
Perfluorodecanoic acid (PFDA)	25.4	0.98	ng/L	23.55		108		52-147			
Perfluoroundecanoic acid (PFUnA)	25.7	0.98	ng/L	23.55		109		48-159			
Perfluorododecanoic acid (PFDoA)	28.2	0.98	ng/L	23.55		120		64-142			
Perfluorotridecanoic acid (PFTrDA)	26.8	0.98	ng/L	23.55		114		49-148			
Perfluorotetradecanoic acid (PFTeDA)	28.2	0.98	ng/L	23.55		120		47-161			
Perfluorobutanesulfonic acid (PFBS)	24.0	0.98	ng/L	20.89		115		62-144			
Perfluoropentanesulfonic acid (PFPeS)	26.0	0.98	ng/L	22.16		117		59-151			
Perfluorohexanesulfonic acid (PFHxS)	25.4	0.98	ng/L	21.53		118		57-146			
Perfluoroheptanesulfonic acid (PFHpS)	26.9	0.98	ng/L	22.44		120		55-152			
Perfluorooctanesulfonic acid (PFOS)	25.0	0.98	ng/L	21.86		114		58-149			
Perfluorononanesulfonic acid (PFNS)	25.7	0.98	ng/L	22.66		113		52-148			
Perfluorodecanesulfonic acid (PFDS)	25.0	0.98	ng/L	22.73		110		51-147			
Perfluorododecanesulfonic acid (PFDoS)	24.1	0.98	ng/L	22.85		106		36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100	3.9	ng/L	88.32		114		67-146			PF-17C
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.2	3.9	ng/L	89.50		105		61-151			PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.9	3.9	ng/L	90.44		109		63-152			
Perfluorooctanesulfonamide (PFOSA)	26.6	0.98	ng/L	23.55		113		61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	25.9	0.98	ng/L	23.55		110		63-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633											
LCS (B392050-BS1)				Prepared: 11/15/24 Analyzed: 11/18/24							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.0	0.98	ng/L	23.55		106		65-139			
N-MeFOSAA (NMeFOSAA)	24.6	0.98	ng/L	23.55		105		58-144			
N-EtFOSAA (NEtFOSAA)	28.5	0.98	ng/L	23.55		121		59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	271	9.8	ng/L	235.5		115		71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	275	9.8	ng/L	235.5		117		69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	3.9	ng/L	94.21		109		63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	86.8	3.9	ng/L	89.02		97.5		68-146			
9Cl-PF3ONS (F53B Minor)	74.3	3.9	ng/L	88.08		84.3		56-156			
11Cl-PF3OUdS (F53B Major)	73.2	3.9	ng/L	89.02		82.3		46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	247	9.8	ng/L	235.5		105		62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1240	49	ng/L	1178		105		63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1090	49	ng/L	1178		92.6		50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	45.7	2.0	ng/L	41.92		109		56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	56.4	2.0	ng/L	47.10		120		51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	59.0	2.0	ng/L	47.10		125		55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	70.1	2.0	ng/L	47.10		149		48-161			
Surrogate: 13C4-PFBA	*77.4*		ng/L	98.13		78.9		10-130			
Surrogate: 13C5-PFPeA	*39.1*		ng/L	49.07		79.7		35-150			
Surrogate: 13C5-PFHxA	*18.4*		ng/L	24.53		75.0		55-150			
Surrogate: 13C4-PFHpA	*18.9*		ng/L	24.53		77.2		55-150			
Surrogate: 13C8-PFOA	*17.8*		ng/L	24.53		72.7		60-140			
Surrogate: 13C9-PFNA	*9.49*		ng/L	12.27		77.4		55-140			
Surrogate: 13C6-PFDA	*10.8*		ng/L	12.27		88.0		50-140			
Surrogate: 13C7-PFUnA	*9.31*		ng/L	12.27		75.9		30-140			
Surrogate: 13C2-PFDoA	*8.61*		ng/L	12.27		70.2		10-150			
Surrogate: 13C2-PFTeDA	*7.90*		ng/L	12.27		64.4		10-130			
Surrogate: 13C3-PFBS	*19.8*		ng/L	24.53		80.6		55-150			
Surrogate: 13C3-PFHxS	*18.6*		ng/L	24.53		75.8		55-150			
Surrogate: 13C8-PFOS	*19.3*		ng/L	24.53		78.5		45-140			
Surrogate: 13C2-4:2FTS	*26.7*		ng/L	49.07		**54.5**	*	60-200			PF-17C
Surrogate: 13C2-6:2FTS	*27.9*		ng/L	49.07		**56.8**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*26.9*		ng/L	49.07		54.8		50-200			
Surrogate: 13C8-PFOSA	*20.5*		ng/L	24.53		83.6		30-130			
Surrogate: D3-NMeFOSA	*17.7*		ng/L	24.53		72.1		15-130			
Surrogate: D5-NEtFOSA	*18.5*		ng/L	24.53		75.5		10-130			
Surrogate: D3-NMeFOSAA	*48.1*		ng/L	49.07		98.0		45-200			
Surrogate: D5-NEtFOSAA	*44.2*		ng/L	49.07		90.0		10-200			
Surrogate: D7-NMeFOSE	*216*		ng/L	245.3		88.0		10-150			
Surrogate: D9-NEtFOSE	*206*		ng/L	245.3		84.0		10-150			
Surrogate: 13C3-HFPO-DA	*85.1*		ng/L	98.13		86.7		25-160			
MRL Check (B392050-MRL1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Perfluorobutanoic acid (PFBA)	7.69	3.9	ng/L	7.825		98.3		44-157			
Perfluoropentanoic acid (PFPeA)	3.70	2.0	ng/L	3.912		94.5		57-148			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633										
MRL Check (B392050-MRL1)				Prepared: 11/15/24 Analyzed: 11/18/24						
Perfluorohexanoic acid (PFHxA)	2.03	0.98	ng/L	1.956		104	62-149			
Perfluoroheptanoic acid (PFHpA)	1.83	0.98	ng/L	1.956		93.8	56-150			
Perfluorooctanoic acid (PFOA)	2.00	0.98	ng/L	1.956		102	57-161			
Perfluorononanoic acid (PFNA)	1.98	0.98	ng/L	1.956		101	53-157			
Perfluorodecanoic acid (PFDA)	1.86	0.98	ng/L	1.956		94.9	43-158			
Perfluoroundecanoic acid (PFUnA)	1.72	0.98	ng/L	1.956		87.8	50-155			
Perfluorododecanoic acid (PFDoA)	2.01	0.98	ng/L	1.956		103	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.87	0.98	ng/L	1.956		95.8	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.03	0.98	ng/L	1.956		104	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.80	0.98	ng/L	1.735		104	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.89	0.98	ng/L	1.841		103	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.96	0.98	ng/L	1.788		110	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.74	0.98	ng/L	1.864		93.1	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.86	0.98	ng/L	1.815		102	43-162			
Perfluorononanesulfonic acid (PFNS)	1.76	0.98	ng/L	1.882		93.3	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.83	0.98	ng/L	1.888		97.1	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.82	0.98	ng/L	1.898		95.7	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.24	3.9	ng/L	7.336		98.7	52-158			PF-17C
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.36	3.9	ng/L	7.434		99.1	48-158			PF-17C
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.89	3.9	ng/L	7.512		91.7	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.05	0.98	ng/L	1.956		105	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.86	0.98	ng/L	1.956		94.9	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.69	0.98	ng/L	1.956		86.1	49-156			
N-MeFOSAA (NMeFOSAA)	2.12	0.98	ng/L	1.956		109	32-160			
N-EtFOSAA (NEtFOSAA)	1.82	0.98	ng/L	1.956		92.9	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	18.6	9.8	ng/L	19.56		95.3	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.5	9.8	ng/L	19.56		99.9	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.57	3.9	ng/L	7.825		96.8	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.36	3.9	ng/L	7.395		86.0	61-148			
9Cl-PF3ONS (F53B Minor)	5.20	3.9	ng/L	7.316		71.1	44-167			
11Cl-PF3OUdS (F53B Major)	5.33	3.9	ng/L	7.395		72.1	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	20.2	9.8	ng/L	19.56		103	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	99.8	49	ng/L	97.81		102	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	86.4	49	ng/L	97.81		88.4	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.63	2.0	ng/L	3.482		104	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.27	2.0	ng/L	3.912		109	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.52	2.0	ng/L	3.912		116	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.39	2.0	ng/L	3.912		138	47-160			
Surrogate: 13C4-PFBA	*78.0*		ng/L	97.81		79.8	10-130			
Surrogate: 13C5-PFPeA	*40.1*		ng/L	48.91		82.0	35-150			
Surrogate: 13C5-PFHxA	*18.4*		ng/L	24.45		75.3	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392050 - Draft Method 1633											
MRL Check (B392050-MRL1)				Prepared: 11/15/24 Analyzed: 11/18/24							
Surrogate: 13C4-PFHpA	*19.6*		ng/L	24.45		80.2		55-150			
Surrogate: 13C8-PFOA	*18.3*		ng/L	24.45		74.8		60-140			
Surrogate: 13C9-PFNA	*9.88*		ng/L	12.23		80.8		55-140			
Surrogate: 13C6-PFDA	*10.5*		ng/L	12.23		85.9		50-140			
Surrogate: 13C7-PFUnA	*9.68*		ng/L	12.23		79.2		30-140			
Surrogate: 13C2-PFDoA	*9.17*		ng/L	12.23		75.0		10-150			
Surrogate: 13C2-PFTeDA	*7.87*		ng/L	12.23		64.4		10-130			
Surrogate: 13C3-PFBS	*20.5*		ng/L	24.45		83.8		55-150			
Surrogate: 13C3-PFHxS	*19.5*		ng/L	24.45		79.6		55-150			
Surrogate: 13C8-PFOS	*19.5*		ng/L	24.45		79.8		45-140			
Surrogate: 13C2-4:2FTS	*26.7*		ng/L	48.91		**54.6**	*	60-200			PF-17C
Surrogate: 13C2-6:2FTS	*27.3*		ng/L	48.91		**55.8**	*	60-200			PF-17C
Surrogate: 13C2-8:2FTS	*24.6*		ng/L	48.91		50.4		50-200			
Surrogate: 13C8-PFOSA	*19.8*		ng/L	24.45		80.8		30-130			
Surrogate: D3-NMeFOSA	*15.1*		ng/L	24.45		61.6		15-130			
Surrogate: D5-NEtFOSA	*16.0*		ng/L	24.45		65.4		10-130			
Surrogate: D3-NMeFOSAA	*47.9*		ng/L	48.91		98.0		45-200			
Surrogate: D5-NEtFOSAA	*42.8*		ng/L	48.91		87.5		10-200			
Surrogate: D7-NMeFOSE	*204*		ng/L	244.5		83.5		10-150			
Surrogate: D9-NEtFOSE	*194*		ng/L	244.5		79.3		10-150			
Surrogate: 13C3-HFPO-DA	*88.8*		ng/L	97.81		90.8		25-160			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391079 - Draft Method 1633										
Blank (B391079-BLK1)				Prepared & Analyzed: 11/01/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B391079-BS1)				Prepared & Analyzed: 11/01/24						
Total Suspended Solids	187	5.0	mg/L	200.0		93.5	51.5-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-17C	Extracted internal standard is outside of control limits. Analyte is a known difficult compound.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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	Sample was re-extracted outside of holding time due to B flag result in the method blank. Data performed outside of holding time is also reported since blank results are acceptable.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
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 Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Soil	
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260D in Soil	
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	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
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8260D in Water	
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
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

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Analyte	Certifications
SW-846 8270E in Water	
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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

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

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

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CHAIN OF CUSTODY RECORD (New York)

24J3762

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address: 201 Fuller Rd, Suite 201, Albany, NY ~~12207~~ 12203	
Consultant Phone: 518-250-7334	
Callout Project Name: Former Commander Oil Terminal - Off-Site	
Project Location: Nassau	
Callout Number: 151674	
Site/Spill Number: C130244A	
Project Manager: Steeven Imbaquingo	
Pace Analytical Quote Name/Number: C100913	
Invoice Recipient: NYS DEC	
Sampled By: Maeve Tucker	

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bagnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/~~Time~~	~~Ending~~ Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	~~8082 PCBs~~ 1,4-Dioxane SIM	8081 Pesticide / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 537 ID (PFAS 1633) See Note
1	MW-3(23-23.5)102424	10/24	0900	✓		S	U	X					
2	DPT-2(5-7)GW102424	10/24	1150		✓	GW	U	X	X				
3	DPT-2(15-17)GW102424	10/24	1315		✓	GW	U	X	X	X			X
4	Trip Blank 102424							X					

	9	4	2			3						
[2] Preservation Code	*	I	I			I						
[3] Container Code	V	A	A			P						

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: * Soil 8260 preserved with M&B. GW 8260 preserved with H.
Note: Lab to centrifuge PFAS1633 for DPT-2(15-17)GW102424

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature) Maeve Tucker	10/24/24 1645
Received by: (signature) AEB Pace LI	10/24/24 16:55
Relinquished by: (signature) AEB Pace LI	10/24/24 18:00
Received by: (signature) MSMA (AN)	10/24 1800
Relinquished by: (signature) MSMA (AN)	10/24 2100
Received by: (signature) Anthony Green	OCT 24 2024 2130

Program & Regulatory Information
☐ AWQ STDS ☑ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☑ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

10/25/24 0920 Rec: 10/25/24 0400

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

Log In Back-Sheet

Client Arcadis

Project Former Commander Oil terminal

MCP/RCP Required na

Deliverable Package Requirement na

Location NY

PWSID# (When Applicable) na

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 10/25/24 720

Back-Sheet By / Date / Time GM 10/25/24 1016

Temperature Method GUN # 6

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

Temp < 6° C Actual Temperature 0.4, 0.6, 1.2

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

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

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

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

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

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November 27, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Nasau, NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24J3930

Enclosed are results of analyses for samples as received by the laboratory on October 26, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 11/27/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J3930

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

PROJECT LOCATION: Nasau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DPT-4 (10-15) 102524	24J3930-01	Soil		SM 2540G	
				SW-846 8260D	
				SW-846 8270E	
MW-4 (26-29) 102524	24J3930-02	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 8260D	
				SW-846 8270E	
MW-4 (11.5-12) 102524	24J3930-03	Soil		SM 2540G	
				SW-846 8260D	
MW-4 (5-6.5) 102524	24J3930-04	Soil		Draft Method 1633	
				SM 2540G	
DPT-4 (20-22) GW102524	24J3930-05	Ground Water		SW-846 8260D	
				SW-846 8270E	
DPT-4 (10-12) GW102524	24J3930-06	Ground Water		SW-846 8260D	
				SW-846 8270E	
Trip Blank	24J3930-07	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids

24J3930-01[DPT-4 (10-15) 102524], 24J3930-02[MW-4 (26-29) 102524], 24J3930-03[MW-4 (11.5-12) 102524], 24J3930-04[MW-4 (5-6.5) 102524]

SW-846 8260D

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Ethanol

B390744-BSD2

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:

Ethanol

24J3930-01[DPT-4 (10-15) 102524], 24J3930-02[MW-4 (26-29) 102524], 24J3930-03[MW-4 (11.5-12) 102524], B390744-BLK1, B390744-BS2, B390744-BSD2, S112978-CCV2

V-20

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B390819-BS1, B390819-BSD1, S113119-CCV1

1,2,4-Trichlorobenzene

B390819-BS1, B390819-BSD1, S113119-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:

Ethanol

24J3930-01[DPT-4 (10-15) 102524], 24J3930-02[MW-4 (26-29) 102524], 24J3930-03[MW-4 (11.5-12) 102524], B390744-BLK1, B390744-BS2, B390744-BSD2, S112978-CCV2

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24J3930-02RE1[MW-4 (26-29) 102524]

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

24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390727-BLK1, B390727-BS1, B390727-BSD1, B390878-BLK1, B390878-BS1, B390878-BSD1

Pyridine

24J3930-01[DPT-4 (10-15) 102524], B390945-BLK1, B390945-BS1, B390945-BSD1

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L-07

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B390878-BS1

L-07A

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
B390901-BSD1

R-05

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

Analyte & Samples(s) Qualified:

1,4-Dioxane
24J3930-02[MW-4 (26-29) 102524], B390901-BLK1, B390901-BS1

2,3,4,6-Tetrachlorophenol
B390878-BLK1, B390878-BS1, B390878-BSD1

2,4-Dinitrophenol
B390878-BLK1, B390878-BS1, B390878-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
B390878-BLK1

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
24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390727-BLK1, B390727-BS1, B390727-BSD1, B390878-BLK1, B390878-BS1, B390878-BSD1, S113189-CCV1, S113229-CCV1, S113298-CCV1, S113520-CCV1

Dibenz(a,h)anthracene
24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390727-BLK1, B390727-BS1, B390727-BSD1, B390878-BLK1, B390878-BS1, B390878-BSD1, S113189-CCV1, S113229-CCV1, S113298-CCV1, S113520-CCV1

Di-n-octylphthalate
24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390727-BLK1, B390727-BS1, B390727-BSD1, B390878-BLK1, B390878-BS1, B390878-BSD1, S113189-CCV1, S113229-CCV1, S113298-CCV1, S113520-CCV1

Indeno(1,2,3-cd)pyrene
24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390727-BLK1, B390727-BS1, B390727-BSD1, B390878-BLK1, B390878-BS1, B390878-BSD1, S113189-CCV1, S113229-CCV1, S113298-CCV1, S113520-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
24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390878-BLK1, B390878-BS1, B390878-BSD1, S 113229-CCV1, S113298-CCV1, S113520-CCV1

Aniline
24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390878-BLK1, B390878-BS1, B390878-BSD1, S 113229-CCV1, S113298-CCV1, S113520-CCV1

Benzaldehyde
24J3930-01[DPT-4 (10-15) 102524], B390945-BLK1, B390945-BS1, B390945-BSD1, S113227-CCV2

V-06

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

Analyte & Samples(s) Qualified:

Caprolactam
B390727-BLK1, B390727-BS1, B390727-BSD1, S113189-CCV2

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V-34

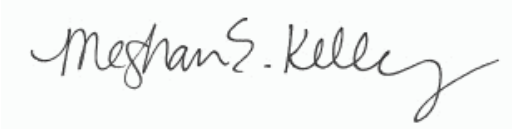
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Pyridine

24J3930-01[DPT-4 (10-15) 102524], 24J3930-05[DPT-4 (20-22) GW102524], 24J3930-06[DPT-4 (10-12) GW102524], B390727-BLK1, B390727-BS1, B390727-BSD1, B390878-BLK1, B390878-BS1, B390878-BSD1, B390945-BLK1, B390945-BS1, B390945-BSD1, S111153-ICV1, S113189-CCV1, S113227-CCV1, S113229-CCV1, S113298-CCV1, S113334-ICV1, S113520-CCV1

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



Meghan E. Kelley
Reporting Specialist

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-15) 102524 | Sampled: 10/25/2024 10:45

Sample ID: 24J3930-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	0.046	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
tert-Amyl Alcohol (TAA)	ND	0.018	0.0038	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0018	0.00062	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00089	0.00083	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Benzene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Bromochloromethane	ND	0.0018	0.00076	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Bromodichloromethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Bromoform	ND	0.0018	0.00078	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Bromomethane	ND	0.0089	0.0016	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
2-Butanone (MEK)	ND	0.035	0.0075	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
tert-Butyl Alcohol (TBA)	ND	0.089	0.036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
n-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
sec-Butylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
tert-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00089	0.00077	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Carbon Disulfide	ND	0.018	0.0089	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Carbon Tetrachloride	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Chlorobenzene	ND	0.0018	0.00043	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Chlorodibromomethane	ND	0.00089	0.00058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Chloroethane	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Chloroform	ND	0.0035	0.00058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Chloromethane	ND	0.0089	0.0011	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Cyclohexane	ND	0.0089	0.0036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0035	0.00072	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	0.00065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.00078	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,1-Dichloroethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2-Dichloroethane	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,1-Dichloroethylene	ND	0.0035	0.00085	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2-Dichloropropane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
cis-1,3-Dichloropropene	ND	0.00089	0.00067	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
trans-1,3-Dichloropropene	ND	0.00089	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Diisopropyl Ether (DIPE)	ND	0.00089	0.00072	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Ethanol	ND	0.18	0.035	mg/Kg dry	1	V-05, V-34	SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Ethylbenzene	ND	0.0018	0.00051	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
2-Hexanone (MBK)	ND	0.018	0.0061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00057	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Methyl Acetate	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-15) 102524 | Sampled: 10/25/2024 10:45

Sample ID: 24J3930-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	0.00078	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Methyl Cyclohexane	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Methylene Chloride	ND	0.018	0.00083	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0078	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Naphthalene	ND	0.0035	0.00088	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
n-Propylbenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Styrene	ND	0.0018	0.00056	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Tetrachloroethylene	ND	0.0018	0.00077	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Toluene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00059	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,1,2-Trichloroethane	ND	0.0018	0.00046	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Trichloroethylene	ND	0.0018	0.00067	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	0.0010	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2,3-Trichloropropane	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0089	0.00093	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00085	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00071	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Vinyl Chloride	ND	0.0089	0.00069	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
m+p Xylene	ND	0.0035	0.0013	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
o-Xylene	ND	0.0018	0.00060	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF
Xylenes (total)	ND	0.0018	0.0018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/29/24 7:18
Toluene-d8	101	70-130		10/29/24 7:18
4-Bromofluorobenzene	99.0	70-130		10/29/24 7:18

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-15) 102524 | Sampled: 10/25/2024 10:45

Sample ID: 24J3930-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.055	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Atrazine	ND	0.80	0.052	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Benzaldehyde	ND	0.41	0.065	mg/Kg dry	1	V-05	SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Biphenyl	ND	0.80	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Caprolactam	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Acenaphthene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Acenaphthylene	ND	0.20	0.037	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Acetophenone	ND	0.41	0.042	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Aniline	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Anthracene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Benzo(a)anthracene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Benzo(a)pyrene	ND	0.20	0.037	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Benzo(b)fluoranthene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Benzo(g,h,i)perylene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Benzo(k)fluoranthene	ND	0.20	0.037	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Bis(2-chloroethoxy)methane	ND	0.41	0.043	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Bis(2-chloroethyl)ether	ND	0.41	0.058	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.048	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4-Bromophenylphenylether	ND	0.41	0.037	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Butylbenzylphthalate	ND	0.41	0.045	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Carbazole	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4-Chloroaniline	ND	0.79	0.072	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4-Chloro-3-methylphenol	ND	0.79	0.042	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2-Chloronaphthalene	ND	0.41	0.036	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2-Chlorophenol	ND	0.41	0.041	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4-Chlorophenylphenylether	ND	0.41	0.034	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Chrysene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Dibenz(a,h)anthracene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Dibenzofuran	ND	0.41	0.036	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Di-n-butylphthalate	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
3,3-Dichlorobenzidine	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,4-Dichlorophenol	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Diethylphthalate	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,4-Dimethylphenol	ND	0.41	0.094	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Dimethylphthalate	ND	0.41	0.038	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4,6-Dinitro-2-methylphenol	ND	0.41	0.32	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,4-Dinitrophenol	ND	0.79	0.31	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,4-Dinitrotoluene	ND	0.41	0.041	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,6-Dinitrotoluene	ND	0.41	0.043	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Di-n-octylphthalate	ND	0.41	0.057	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Fluoranthene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Fluorene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Hexachlorobenzene	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-15) 102524 | Sampled: 10/25/2024 10:45

Sample ID: 24J3930-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.41	0.037	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Hexachloroethane	ND	0.41	0.037	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Indeno(1,2,3-cd)pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Isophorone	ND	0.41	0.043	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
1-Methylnaphthalene	ND	0.20	0.041	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2-Methylnaphthalene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2-Methylphenol	ND	0.41	0.054	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
3/4-Methylphenol	ND	0.41	0.053	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Naphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2-Nitroaniline	ND	0.41	0.049	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
3-Nitroaniline	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4-Nitroaniline	ND	0.41	0.045	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Nitrobenzene	ND	0.41	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2-Nitrophenol	ND	0.41	0.040	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
4-Nitrophenol	ND	0.79	0.11	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.41	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
N-Nitrosodi-n-propylamine	ND	0.41	0.057	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Pentachlorophenol	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Phenanthrene	ND	0.20	0.036	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Phenol	ND	0.41	0.051	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Pyrene	ND	0.20	0.042	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
Pyridine	ND	0.41	0.047	mg/Kg dry	1	L-04, V-34	SW-846 8270E	10/30/24	11/1/24 18:43	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.040	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,4,5-Trichlorophenol	ND	0.41	0.041	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC
2,4,6-Trichlorophenol	ND	0.41	0.039	mg/Kg dry	1		SW-846 8270E	10/30/24	11/1/24 18:43	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.5	30-130		11/1/24 18:43
Phenol-d6	65.5	30-130		11/1/24 18:43
Nitrobenzene-d5	58.6	30-130		11/1/24 18:43
2-Fluorobiphenyl	57.1	30-130		11/1/24 18:43
2,4,6-Tribromophenol	75.8	30-130		11/1/24 18:43
p-Terphenyl-d14	63.4	30-130		11/1/24 18:43

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-15) 102524 | Sampled: 10/25/2024 10:45

Sample ID: 24J3930-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1	H-06	SM 2540G	11/6/24	11/6/24 9:55	MEF/MLR

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (26-29) 102524 | Sampled: 10/25/2024 13:35

Sample ID: 24J3930-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
tert-Amyl Alcohol (TAA)	ND	0.021	0.0044	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00096	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Benzene	ND	0.0021	0.00065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Bromochloromethane	ND	0.0021	0.00089	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Bromodichloromethane	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Bromoform	ND	0.0021	0.00090	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
2-Butanone (MEK)	ND	0.041	0.0087	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
n-Butylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
sec-Butylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
tert-Butylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00089	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Carbon Disulfide	ND	0.021	0.010	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Carbon Tetrachloride	ND	0.0021	0.00060	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Chlorobenzene	ND	0.0021	0.00050	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Chlorodibromomethane	ND	0.0010	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Chloroethane	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Chloroform	ND	0.0041	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Chloromethane	ND	0.010	0.0013	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Cyclohexane	ND	0.010	0.0042	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0041	0.00084	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00075	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00066	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00060	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.00090	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,1-Dichloroethane	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2-Dichloroethane	ND	0.0021	0.00071	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,1-Dichloroethylene	ND	0.0041	0.00099	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2-Dichloropropane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00080	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00084	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Ethanol	ND	0.21	0.041	mg/Kg dry	1	V-05, V-34	SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Ethylbenzene	ND	0.0021	0.00059	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
2-Hexanone (MBK)	ND	0.021	0.0071	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00080	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00067	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Methyl Acetate	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (26-29) 102524 | Sampled: 10/25/2024 13:35

Sample ID: 24J3930-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00091	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Methyl Cyclohexane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Methylene Chloride	ND	0.021	0.00097	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0091	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Naphthalene	ND	0.0041	0.0010	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
n-Propylbenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Styrene	ND	0.0021	0.00066	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00080	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Tetrachloroethylene	ND	0.0021	0.00090	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Toluene	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,1,1-Trichloroethane	ND	0.0021	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,1,2-Trichloroethane	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Trichloroethylene	ND	0.0021	0.00078	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2,3-Trichloropropane	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00099	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Vinyl Chloride	ND	0.010	0.00080	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
m+p Xylene	ND	0.0041	0.0015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
o-Xylene	ND	0.0021	0.00070	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF
Xylenes (total)	ND	0.0021	0.0021	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 7:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		10/29/24 7:44
Toluene-d8	100	70-130		10/29/24 7:44
4-Bromofluorobenzene	96.6	70-130		10/29/24 7:44

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (26-29) 102524 | Sampled: 10/25/2024 13:35

Sample ID: 24J3930-02

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.058	0.045	mg/Kg dry	1	R-05	SW-846 8270E	10/30/24	11/12/24 11:20	GJB
1,4-Dioxane	ND	0.057	0.045	mg/Kg dry	1		SW-846 8270E	11/12/24	11/15/24 6:45	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	39.3	15-110		11/15/24 6:45
1,4-Dioxane-d8	54.4	15-110		11/12/24 11:20

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (26-29) 102524 | Sampled: 10/25/2024 13:35

Sample ID: 24J3930-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.13	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.083	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.065	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.058	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.30	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.0	0.49	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (26-29) 102524 | Sampled: 10/25/2024 13:35

Sample ID: 24J3930-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:43	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	61.4	8-130		11/27/24 9:43
13C5-PFPeA	69.2	35-130		11/27/24 9:43
13C5-PFHxA	70.0	40-130		11/27/24 9:43
13C4-PFHpA	67.3	40-130		11/27/24 9:43
13C8-PFOA	75.1	40-130		11/27/24 9:43
13C9-PFNA	72.9	40-130		11/27/24 9:43
13C6-PFDA	71.2	40-130		11/27/24 9:43
13C7-PFUnA	72.1	40-130		11/27/24 9:43
13C2-PFDoA	75.5	40-130		11/27/24 9:43
13C2-PFTeDA	78.3	20-130		11/27/24 9:43
13C3-PFBS	67.7	40-135		11/27/24 9:43
13C3-PFHxS	67.6	40-130		11/27/24 9:43
13C8-PFOS	73.8	40-130		11/27/24 9:43
13C2-4:2FTS	71.6	40-165		11/27/24 9:43
13C2-6:2FTS	68.3	40-215		11/27/24 9:43
13C2-8:2FTS	70.3	40-275		11/27/24 9:43
13C8-PFOSA	55.2	40-130		11/27/24 9:43
D3-NMeFOSA	60.2	10-130		11/27/24 9:43
D5-NEtFOSA	58.0	10-130		11/27/24 9:43
D3-NMeFOSAA	58.9	40-135		11/27/24 9:43
D5-NEtFOSAA	58.7	40-150		11/27/24 9:43
D7-NMeFOSE	68.5	20-130		11/27/24 9:43
D9-NEtFOSE	74.4	15-130		11/27/24 9:43
13C3-HFPO-DA	69.7	40-130		11/27/24 9:43

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (26-29) 102524 | Sampled: 10/25/2024 13:35

Sample ID: 24J3930-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1	H-06	SM 2540G	11/8/24	11/8/24 13:23	MLR

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (11.5-12) 102524 | Sampled: 10/25/2024 13:15

Sample ID: 24J3930-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.084	0.044	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
tert-Amyl Alcohol (TAA)	ND	0.017	0.0036	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00084	0.00079	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Benzene	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Bromochloromethane	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Bromodichloromethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Bromoform	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Bromomethane	ND	0.0084	0.0015	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
2-Butanone (MEK)	ND	0.034	0.0071	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
tert-Butyl Alcohol (TBA)	ND	0.084	0.035	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
n-Butylbenzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
sec-Butylbenzene	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
tert-Butylbenzene	ND	0.0017	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00084	0.00073	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Carbon Disulfide	ND	0.017	0.0085	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Carbon Tetrachloride	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Chlorobenzene	ND	0.0017	0.00041	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Chlorodibromomethane	ND	0.00084	0.00056	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Chloroethane	ND	0.017	0.0012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Chloroform	ND	0.0034	0.00055	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Chloromethane	ND	0.0084	0.0010	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Cyclohexane	ND	0.0084	0.0034	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0034	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2-Dibromoethane (EDB)	ND	0.00084	0.00061	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,1-Dichloroethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2-Dichloroethane	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,1-Dichloroethylene	ND	0.0034	0.00081	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2-Dichloropropane	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
cis-1,3-Dichloropropene	ND	0.00084	0.00064	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
trans-1,3-Dichloropropene	ND	0.00084	0.00065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Diisopropyl Ether (DIPE)	ND	0.00084	0.00069	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Ethanol	ND	0.17	0.034	mg/Kg dry	1	V-05, V-34	SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Ethylbenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
2-Hexanone (MBK)	ND	0.017	0.0058	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Methyl Acetate	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (11.5-12) 102524 | Sampled: 10/25/2024 13:15

Sample ID: 24J3930-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Methyl Cyclohexane	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Methylene Chloride	ND	0.017	0.00079	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Naphthalene	ND	0.0034	0.00083	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
n-Propylbenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Styrene	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.00084	0.00065	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Tetrachloroethylene	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Toluene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Trichloroethylene	ND	0.0017	0.00063	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0084	0.00099	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0084	0.00088	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00081	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Vinyl Chloride	ND	0.0084	0.00066	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
m+p Xylene	ND	0.0034	0.0012	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
o-Xylene	ND	0.0017	0.00057	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF
Xylenes (total)	ND	0.0017	0.0017	mg/Kg dry	1		SW-846 8260D	10/29/24	10/29/24 8:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	100	70-130		10/29/24	8:09
Toluene-d8	100	70-130		10/29/24	8:09
4-Bromofluorobenzene	95.8	70-130		10/29/24	8:09

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (11.5-12) 102524 | Sampled: 10/25/2024 13:15

Sample ID: 24J3930-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1	H-06	SM 2540G	11/6/24	11/6/24 9:55	MEF/MLR

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (5-6.5) 102524 | Sampled: 10/25/2024 13:00

Sample ID: 24J3930-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (5-6.5) 102524 | Sampled: 10/25/2024 13:00

Sample ID: 24J3930-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/26/24	11/27/24 9:52	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	80.5	8-130		11/27/24 9:52
13C5-PFPeA	82.0	35-130		11/27/24 9:52
13C5-PFHxA	78.9	40-130		11/27/24 9:52
13C4-PFHpA	75.5	40-130		11/27/24 9:52
13C8-PFOA	89.1	40-130		11/27/24 9:52
13C9-PFNA	81.4	40-130		11/27/24 9:52
13C6-PFDA	78.9	40-130		11/27/24 9:52
13C7-PFUnA	86.2	40-130		11/27/24 9:52
13C2-PFDoA	83.8	40-130		11/27/24 9:52
13C2-PFTeDA	88.3	20-130		11/27/24 9:52
13C3-PFBS	77.8	40-135		11/27/24 9:52
13C3-PFHxS	80.5	40-130		11/27/24 9:52
13C8-PFOS	85.0	40-130		11/27/24 9:52
13C2-4:2FTS	90.1	40-165		11/27/24 9:52
13C2-6:2FTS	91.1	40-215		11/27/24 9:52
13C2-8:2FTS	105	40-275		11/27/24 9:52
13C8-PFOSA	71.3	40-130		11/27/24 9:52
D3-NMeFOSA	69.4	10-130		11/27/24 9:52
D5-NEtFOSA	71.2	10-130		11/27/24 9:52
D3-NMeFOSAA	72.4	40-135		11/27/24 9:52
D5-NEtFOSAA	78.4	40-150		11/27/24 9:52
D7-NMeFOSE	77.5	20-130		11/27/24 9:52
D9-NEtFOSE	82.2	15-130		11/27/24 9:52
13C3-HFPO-DA	77.2	40-130		11/27/24 9:52

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: MW-4 (5-6.5) 102524 | Sampled: 10/25/2024 13:00

Sample ID: 24J3930-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (20-22) GW102524 | Sampled: 10/25/2024 15:10

Sample ID: 24J3930-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.2	50	2.0	µg/L	1	J	SW-846 8260D	10/29/24	10/30/24 13:50	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (20-22) GW102524 | Sampled: 10/25/2024 15:10

Sample ID: 24J3930-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.29	1.0	0.17	µg/L	1	J	SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Toluene	1.1	1.0	0.11	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/29/24	10/30/24 13:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		10/30/24 13:50
Toluene-d8	107	70-130		10/30/24 13:50
4-Bromofluorobenzene	104	70-130		10/30/24 13:50

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (20-22) GW102524 | Sampled: 10/25/2024 15:10

Sample ID: 24J3930-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	21	5.8	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Atrazine	ND	21	1.7	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Benzaldehyde	ND	10	0.75	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Biphenyl	ND	21	0.95	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Caprolactam	ND	10	0.74	µg/L	1	L-04	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Acenaphthene	ND	5.2	0.81	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Acenaphthylene	ND	5.2	0.66	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Acetophenone	ND	10	0.52	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Aniline	ND	21	9.2	µg/L	1	V-05	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Anthracene	ND	5.2	0.56	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Benzo(a)anthracene	ND	5.2	0.39	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Benzo(a)pyrene	ND	5.2	0.45	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Benzo(b)fluoranthene	ND	5.2	0.33	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Benzo(g,h,i)perylene	ND	5.2	0.54	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Benzo(k)fluoranthene	ND	5.2	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Bis(2-chloroethoxy)methane	ND	10	0.59	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Bis(2-chloroethyl)ether	ND	10	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.77	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.33	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4-Bromophenylphenylether	ND	10	0.73	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Butylbenzylphthalate	ND	10	0.41	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Carbazole	ND	10	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4-Chloroaniline	ND	10	5.4	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4-Chloro-3-methylphenol	ND	10	0.65	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2-Chloronaphthalene	ND	10	0.84	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2-Chlorophenol	ND	10	0.42	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4-Chlorophenylphenylether	ND	10	0.90	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Chrysene	ND	5.2	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Dibenz(a,h)anthracene	ND	5.2	0.49	µg/L	1	V-04	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Dibenzofuran	ND	5.2	0.88	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Di-n-butylphthalate	ND	10	0.52	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
3,3-Dichlorobenzidine	ND	10	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,4-Dichlorophenol	ND	10	0.48	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Diethylphthalate	ND	10	0.57	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,4-Dimethylphenol	ND	10	0.42	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Dimethylphthalate	ND	10	0.45	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4,6-Dinitro-2-methylphenol	ND	21	2.4	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,4-Dinitrophenol	ND	10	1.4	µg/L	1	V-04, V-05	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,4-Dinitrotoluene	ND	10	0.36	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,6-Dinitrotoluene	ND	10	0.57	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Di-n-octylphthalate	ND	10	0.34	µg/L	1	V-04	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Fluoranthene	ND	5.2	0.58	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Fluorene	ND	5.2	0.78	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Hexachlorobenzene	ND	10	0.74	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (20-22) GW102524 | Sampled: 10/25/2024 15:10

Sample ID: 24J3930-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.3	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Hexachlorocyclopentadiene	ND	10	2.9	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Hexachloroethane	ND	10	1.3	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Indeno(1,2,3-cd)pyrene	ND	5.2	0.49	µg/L	1	V-04	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Isophorone	ND	10	0.56	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
1-Methylnaphthalene	ND	5.2	1.0	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2-Methylnaphthalene	ND	5.2	0.96	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2-Methylphenol	ND	10	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
3/4-Methylphenol	ND	10	0.50	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Naphthalene	ND	5.2	0.93	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2-Nitroaniline	ND	10	0.51	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
3-Nitroaniline	ND	10	0.53	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4-Nitroaniline	ND	10	0.45	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Nitrobenzene	ND	10	0.70	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2-Nitrophenol	ND	10	0.56	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.50	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
N-Nitrosodi-n-propylamine	ND	10	0.68	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Pentachlorophenol	ND	10	0.50	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Phenanthrene	ND	5.2	0.74	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Phenol	ND	10	0.61	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Pyrene	ND	5.2	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
Pyridine	ND	21	5.3	µg/L	1	V-34	SW-846 8270E	10/29/24	10/31/24 21:05	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,4,5-Trichlorophenol	ND	10	0.47	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL
2,4,6-Trichlorophenol	ND	10	0.39	µg/L	1		SW-846 8270E	10/29/24	10/31/24 21:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	58.4	15-110		10/31/24 21:05
Phenol-d6	38.8	15-110		10/31/24 21:05
Nitrobenzene-d5	89.6	30-130		10/31/24 21:05
2-Fluorobiphenyl	83.8	30-130		10/31/24 21:05
2,4,6-Tribromophenol	109	15-110		10/31/24 21:05
p-Terphenyl-d14	100	30-130		10/31/24 21:05

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-12) GW102524 | Sampled: 10/25/2024 15:30

Sample ID: 24J3930-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
tert-Butyl Alcohol (TBA)	12	20	3.4	µg/L	1	J	SW-846 8260D	10/29/24	10/30/24 14:15	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-12) GW102524 | Sampled: 10/25/2024 15:30

Sample ID: 24J3930-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.0	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/29/24	10/30/24 14:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		10/30/24 14:15
Toluene-d8	92.6	70-130		10/30/24 14:15
4-Bromofluorobenzene	98.8	70-130		10/30/24 14:15

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-12) GW102524 | Sampled: 10/25/2024 15:30

Sample ID: 24J3930-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.2	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Benzaldehyde	ND	9.2	0.67	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Biphenyl	ND	18	0.85	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Aniline	ND	18	8.2	µg/L	1	V-05	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.2	0.69	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4-Bromophenylphenylether	ND	9.2	0.65	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Di-n-butylphthalate	ND	9.2	0.46	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,4-Dimethylphenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,4-Dinitrophenol	ND	9.2	1.2	µg/L	1	V-04, V-05	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,6-Dinitrotoluene	ND	9.2	0.51	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: DPT-4 (10-12) GW102524 | Sampled: 10/25/2024 15:30

Sample ID: 24J3930-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Hexachloroethane	ND	9.2	1.1	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
1-Methylnaphthalene	ND	4.6	0.90	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
3-Nitroaniline	ND	9.2	0.48	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
4-Nitrophenol	ND	9.2	1.2	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Pentachlorophenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Phenol	ND	9.2	0.55	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
Pyridine	ND	18	4.7	µg/L	1	V-34	SW-846 8270E	10/30/24	11/6/24 9:38	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	10/30/24	11/6/24 9:38	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.7	15-110		11/6/24 9:38
Phenol-d6	32.8	15-110		11/6/24 9:38
Nitrobenzene-d5	88.1	30-130		11/6/24 9:38
2-Fluorobiphenyl	86.6	30-130		11/6/24 9:38
2,4,6-Tribromophenol	99.2	15-110		11/6/24 9:38
p-Terphenyl-d14	105	30-130		11/6/24 9:38

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: Trip Blank | Sampled: 10/25/2024 00:00

Sample ID: 24J3930-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH

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Project Location: Nasau, NY | Sample Description: | Work Order: 24J3930

Date Received: 10/26/2024

Field Sample #: Trip Blank | Sampled: 10/25/2024 00:00

Sample ID: 24J3930-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/29/24	10/30/24 11:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.8	70-130		10/30/24 11:17
Toluene-d8	97.2	70-130		10/30/24 11:17
4-Bromofluorobenzene	114	70-130		10/30/24 11:17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3930-02RE1 [MW-4 (26-29) 102524]	B393181	5.81	4.00	11/26/24
24J3930-04RE1 [MW-4 (5-6.5) 102524]	B393181	5.88	4.00	11/26/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3930-01 [DPT-4 (10-15) 102524]	B391518	11/06/24
24J3930-03 [MW-4 (11.5-12) 102524]	B391518	11/06/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3930-02 [MW-4 (26-29) 102524]	B391782	11/08/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24J3930-04 [MW-4 (5-6.5) 102524]	B392045	11/12/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3930-01 [DPT-4 (10-15) 102524]	B390744	6.87	10.0	10/29/24
24J3930-02 [MW-4 (26-29) 102524]	B390744	5.61	10.0	10/29/24
24J3930-03 [MW-4 (11.5-12) 102524]	B390744	6.65	10.0	10/29/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3930-05 [DPT-4 (20-22) GW102524]	B390819	5	5.00	10/29/24
24J3930-06 [DPT-4 (10-12) GW102524]	B390819	5	5.00	10/29/24
24J3930-07 [Trip Blank]	B390819	5	5.00	10/29/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3930-02 [MW-4 (26-29) 102524]	B390901	20.1	1.00	10/30/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3930-01 [DPT-4 (10-15) 102524]	B390945	30.6	1.00	10/30/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J3930-02RE1 [MW-4 (26-29) 102524]	B392039	20.4	1.00	11/12/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3930-05 [DPT-4 (20-22) GW102524]	B390727	97.0	1.00	10/29/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J3930-06 [DPT-4 (10-12) GW102524]	B390878	109	1.00	10/30/24

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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 B390744 - SW-846 5035										
Blank (B390744-BLK1)				Prepared & Analyzed: 10/29/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethanol	ND	0.20	mg/Kg wet							V-05, V-34
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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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 B390744 - SW-846 5035											
Blank (B390744-BLK1)				Prepared & Analyzed: 10/29/24							
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Xylenes (total)	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0503*		mg/Kg wet	0.05000		101	70-130				
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.05000		99.3	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0486*		mg/Kg wet	0.05000		97.3	70-130				
LCS (B390744-BS1)				Prepared & Analyzed: 10/29/24							
Acetone	0.185	0.10	mg/Kg wet	0.2000		92.3	70-160				†
tert-Amyl Alcohol (TAA)	0.228	0.020	mg/Kg wet	0.2000		114	70-130				
tert-Amyl Ethyl Ether (TAEE)	0.0192	0.0020	mg/Kg wet	0.02000		95.9	70-130				
tert-Amyl Methyl Ether (TAME)	0.0208	0.0010	mg/Kg wet	0.02000		104	70-130				
Benzene	0.0207	0.0020	mg/Kg wet	0.02000		104	70-130				
Bromochloromethane	0.0235	0.0020	mg/Kg wet	0.02000		118	70-130				
Bromodichloromethane	0.0195	0.0020	mg/Kg wet	0.02000		97.7	70-130				
Bromoform	0.0212	0.0020	mg/Kg wet	0.02000		106	70-130				
Bromomethane	0.0227	0.010	mg/Kg wet	0.02000		114	40-130				†
2-Butanone (MEK)	0.193	0.040	mg/Kg wet	0.2000		96.3	70-160				†
tert-Butyl Alcohol (TBA)	0.206	0.10	mg/Kg wet	0.2000		103	40-130				†
n-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.02000		107	70-130				
tert-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.02000		111	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.02000		96.8	70-130				
Carbon Disulfide	0.214	0.020	mg/Kg wet	0.2000		107	70-130				
Carbon Tetrachloride	0.0218	0.0020	mg/Kg wet	0.02000		109	70-130				
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130				
Chlorodibromomethane	0.0206	0.0010	mg/Kg wet	0.02000		103	70-130				
Chloroethane	0.0200	0.020	mg/Kg wet	0.02000		100	70-130				
Chloroform	0.0208	0.0040	mg/Kg wet	0.02000		104	70-130				
Chloromethane	0.0171	0.010	mg/Kg wet	0.02000		85.5	70-130				
Cyclohexane	0.0197	0.010	mg/Kg wet	0.02000		98.4	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0222	0.0040	mg/Kg wet	0.02000		111	70-130				
1,2-Dibromoethane (EDB)	0.0195	0.0010	mg/Kg wet	0.02000		97.3	70-130				
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.7	70-130				
1,3-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.02000		103	70-130				
1,4-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130				
Dichlorodifluoromethane (Freon 12)	0.0166	0.020	mg/Kg wet	0.02000		82.9	40-160			J	†
1,1-Dichloroethane	0.0200	0.0020	mg/Kg wet	0.02000		100	70-130				
1,2-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.02000		114	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 B390744 - SW-846 5035											
LCS (B390744-BS1)				Prepared & Analyzed: 10/29/24							
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.02000		100	70-130				
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130				
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130				
1,2-Dichloropropane	0.0188	0.0020	mg/Kg wet	0.02000		94.2	70-130				
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.02000		104	70-130				
trans-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.02000		100	70-130				
Diisopropyl Ether (DIPE)	0.0185	0.0010	mg/Kg wet	0.02000		92.3	70-130				
Ethylbenzene	0.0207	0.0020	mg/Kg wet	0.02000		103	70-130				
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.2000		94.6	70-160				†
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.02000		105	70-130				
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.02000		108	70-130				
Methyl Acetate	0.0185	0.0020	mg/Kg wet	0.02000		92.4	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.02000		97.9	70-130				
Methyl Cyclohexane	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130				
Methylene Chloride	0.0187	0.020	mg/Kg wet	0.02000		93.7	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.190	0.020	mg/Kg wet	0.2000		94.8	70-160				†
Naphthalene	0.0170	0.0040	mg/Kg wet	0.02000		85.0	40-130				†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.02000		106	70-130				
Styrene	0.0207	0.0020	mg/Kg wet	0.02000		103	70-130				
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.02000		103	70-130				
Tetrachloroethylene	0.0191	0.0020	mg/Kg wet	0.02000		95.6	70-130				
Toluene	0.0185	0.0020	mg/Kg wet	0.02000		92.7	70-130				
1,2,3-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.02000		85.6	70-130				
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.02000		87.0	70-130				
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.02000		104	70-130				
1,1,2-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.02000		106	70-130				
Trichloroethylene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130				
Trichlorofluoromethane (Freon 11)	0.0210	0.010	mg/Kg wet	0.02000		105	70-130				
1,2,3-Trichloropropane	0.0224	0.0020	mg/Kg wet	0.02000		112	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0216	0.010	mg/Kg wet	0.02000		108	70-130				
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.02000		107	70-130				
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.02000		103	70-130				
Vinyl Chloride	0.0193	0.010	mg/Kg wet	0.02000		96.3	40-130				†
m+p Xylene	0.0412	0.0040	mg/Kg wet	0.04000		103	70-130				
o-Xylene	0.0207	0.0020	mg/Kg wet	0.02000		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0512*		mg/Kg wet	0.05000		102	70-130				
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.05000		98.2	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0487*		mg/Kg wet	0.05000		97.4	70-130				
LCS (B390744-BS2)				Prepared & Analyzed: 10/29/24							
Ethanol	0.0992	0.20	mg/Kg wet	0.2000		49.6	40-160			J, V-05, V-34	
Surrogate: 1,2-Dichloroethane-d4	*0.0511*		mg/Kg wet	0.05000		102	70-130				
Surrogate: Toluene-d8	*0.0500*		mg/Kg wet	0.05000		100	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0478*		mg/Kg wet	0.05000		95.6	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 B390744 - SW-846 5035											
LCS Dup (B390744-BSD1)				Prepared & Analyzed: 10/29/24							
Acetone	0.175	0.10	mg/Kg wet	0.2000		87.4	70-160	5.39	25		†
tert-Amyl Alcohol (TAA)	0.207	0.020	mg/Kg wet	0.2000		103	70-130	9.70	25		
tert-Amyl Ethyl Ether (TAEE)	0.0177	0.0020	mg/Kg wet	0.02000		88.6	70-130	7.91	25		
tert-Amyl Methyl Ether (TAME)	0.0191	0.0010	mg/Kg wet	0.02000		95.6	70-130	8.42	25		
Benzene	0.0185	0.0020	mg/Kg wet	0.02000		92.7	70-130	11.2	25		
Bromochloromethane	0.0219	0.0020	mg/Kg wet	0.02000		110	70-130	7.22	25		
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.02000		94.4	70-130	3.44	25		
Bromoform	0.0212	0.0020	mg/Kg wet	0.02000		106	70-130	0.00	25		
Bromomethane	0.0207	0.010	mg/Kg wet	0.02000		104	40-130	9.20	25		†
2-Butanone (MEK)	0.184	0.040	mg/Kg wet	0.2000		92.1	70-160	4.45	25		†
tert-Butyl Alcohol (TBA)	0.183	0.10	mg/Kg wet	0.2000		91.4	40-130	12.2	25		†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.0	70-130	6.19	25		
sec-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.02000		99.1	70-130	8.04	25		
tert-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-160	9.66	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0182	0.0010	mg/Kg wet	0.02000		91.0	70-130	6.18	25		
Carbon Disulfide	0.192	0.020	mg/Kg wet	0.2000		96.0	70-130	10.6	25		
Carbon Tetrachloride	0.0191	0.0020	mg/Kg wet	0.02000		95.5	70-130	13.1	25		
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.02000		94.3	70-130	6.37	25		
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.02000		103	70-130	0.292	25		
Chloroethane	0.0182	0.020	mg/Kg wet	0.02000		90.9	70-130	9.73	25	J	
Chloroform	0.0197	0.0040	mg/Kg wet	0.02000		98.5	70-130	5.62	25		
Chloromethane	0.0154	0.010	mg/Kg wet	0.02000		77.0	70-130	10.5	25		
Cyclohexane	0.0177	0.010	mg/Kg wet	0.02000		88.4	70-130	10.7	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0040	mg/Kg wet	0.02000		97.7	70-130	12.7	25		
1,2-Dibromoethane (EDB)	0.0197	0.0010	mg/Kg wet	0.02000		98.3	70-130	1.02	25		
1,2-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.02000		96.0	70-130	2.77	25		
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.02000		101	70-130	2.16	25		
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.02000		96.9	70-130	5.42	25		
Dichlorodifluoromethane (Freon 12)	0.0141	0.020	mg/Kg wet	0.02000		70.4	40-160	16.3	25	J	†
1,1-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.02000		90.4	70-130	10.2	25		
1,2-Dichloroethane	0.0222	0.0020	mg/Kg wet	0.02000		111	70-130	2.22	25		
1,1-Dichloroethylene	0.0182	0.0040	mg/Kg wet	0.02000		91.2	70-130	9.70	25		
cis-1,2-Dichloroethylene	0.0183	0.0020	mg/Kg wet	0.02000		91.5	70-130	10.9	25		
trans-1,2-Dichloroethylene	0.0183	0.0020	mg/Kg wet	0.02000		91.6	70-130	9.86	25		
1,2-Dichloropropane	0.0176	0.0020	mg/Kg wet	0.02000		87.9	70-130	6.92	25		
cis-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.02000		98.1	70-130	5.45	25		
trans-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.02000		96.8	70-130	3.65	25		
Diisopropyl Ether (DIPE)	0.0179	0.0010	mg/Kg wet	0.02000		89.3	70-130	3.30	25		
Ethylbenzene	0.0195	0.0020	mg/Kg wet	0.02000		97.7	70-130	5.57	25		
2-Hexanone (MBK)	0.184	0.020	mg/Kg wet	0.2000		92.2	70-160	2.47	25		†
Isopropylbenzene (Cumene)	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130	6.60	25		
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.02000		102	70-130	6.57	25		
Methyl Acetate	0.0172	0.0020	mg/Kg wet	0.02000		86.1	70-130	7.06	25		
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.02000		93.0	70-130	5.13	25		
Methyl Cyclohexane	0.0192	0.0020	mg/Kg wet	0.02000		95.8	70-130	5.09	25		
Methylene Chloride	0.0178	0.020	mg/Kg wet	0.02000		88.8	40-160	5.37	25	J	†
4-Methyl-2-pentanone (MIBK)	0.185	0.020	mg/Kg wet	0.2000		92.7	70-160	2.27	25		†
Naphthalene	0.0167	0.0040	mg/Kg wet	0.02000		83.6	40-130	1.66	25		†
n-Propylbenzene	0.0196	0.0020	mg/Kg wet	0.02000		97.8	70-130	7.95	25		
Styrene	0.0201	0.0020	mg/Kg wet	0.02000		101	70-130	2.55	25		
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.02000		96.4	70-130	6.23	25		
Tetrachloroethylene	0.0178	0.0020	mg/Kg wet	0.02000		88.8	70-130	7.38	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 B390744 - SW-846 5035											
LCS Dup (B390744-BSD1)				Prepared & Analyzed: 10/29/24							
Toluene	0.0180	0.0020	mg/Kg wet	0.02000		89.8		70-130	3.18	25	
1,2,3-Trichlorobenzene	0.0175	0.0020	mg/Kg wet	0.02000		87.6		70-130	2.31	25	
1,2,4-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.02000		86.5		70-130	0.576	25	
1,1,1-Trichloroethane	0.0184	0.0020	mg/Kg wet	0.02000		91.8		70-130	12.0	25	
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.02000		102		70-130	4.05	25	
Trichloroethylene	0.0178	0.0020	mg/Kg wet	0.02000		89.2		70-130	6.61	25	
Trichlorofluoromethane (Freon 11)	0.0191	0.010	mg/Kg wet	0.02000		95.6		70-130	9.28	25	
1,2,3-Trichloropropane	0.0221	0.0020	mg/Kg wet	0.02000		110		70-130	1.62	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0187	0.010	mg/Kg wet	0.02000		93.5		70-130	14.4	25	
1,2,4-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.02000		102		70-130	5.08	25	
1,3,5-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.02000		95.2		70-130	8.16	25	
Vinyl Chloride	0.0175	0.010	mg/Kg wet	0.02000		87.5		40-130	9.58	25	†
m+p Xylene	0.0393	0.0040	mg/Kg wet	0.04000		98.4		70-130	4.57	25	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.02000		97.2		70-130	6.37	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0492*		mg/Kg wet	0.05000		98.4		70-130			
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.05000		99.8		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0482*		mg/Kg wet	0.05000		96.5		70-130			
LCS Dup (B390744-BSD2)				Prepared & Analyzed: 10/29/24							
Ethanol	0.0778	0.20	mg/Kg wet	0.2000		**38.9**	*	40-160	24.2	25	J, L-07, V-05, V-34
Surrogate: 1,2-Dichloroethane-d4	*0.0527*		mg/Kg wet	0.05000		105		70-130			
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.05000		98.6		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.05000		98.0		70-130			
Batch B390819 - SW-846 5030B											
Blank (B390819-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24							
Acetone	ND	50	µg/L								
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L								
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L								
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L								
Benzene	ND	1.0	µg/L								
Bromochloromethane	ND	1.0	µg/L								
Bromodichloromethane	ND	0.50	µg/L								
Bromoform	ND	1.0	µg/L								
Bromomethane	ND	2.0	µg/L								
2-Butanone (MEK)	ND	20	µg/L								
tert-Butyl Alcohol (TBA)	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								
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L								
Carbon Disulfide	ND	5.0	µg/L								
Carbon Tetrachloride	ND	5.0	µg/L								
Chlorobenzene	ND	1.0	µg/L								
Chlorodibromomethane	ND	0.50	µg/L								
Chloroethane	ND	2.0	µg/L								
Chloroform	ND	2.0	µg/L								
Chloromethane	ND	2.0	µg/L								
Cyclohexane	ND	5.0	µg/L								
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	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 B390819 - SW-846 5030B										
Blank (B390819-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24						
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							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.00		93.5	70-130			
Surrogate: Toluene-d8	*22.3*		µg/L	25.00		89.1	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.00		100	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 B390819 - SW-846 5030B										
LCS (B390819-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24						
Acetone	82.8	50	µg/L	100.0		82.8	70-160			†
tert-Amyl Alcohol (TAA)	99.3	5.0	µg/L	100.0		99.3	70-130			
tert-Amyl Ethyl Ether (TAEE)	10.2	0.50	µg/L	10.00		102	70-130			
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.00		101	70-130			
Benzene	11.0	1.0	µg/L	10.00		110	70-130			
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130			
Bromodichloromethane	10.8	0.50	µg/L	10.00		108	70-130			
Bromoform	11.2	1.0	µg/L	10.00		112	70-130			
Bromomethane	11.2	2.0	µg/L	10.00		112	40-160			†
2-Butanone (MEK)	86.6	20	µg/L	100.0		86.6	40-160			†
tert-Butyl Alcohol (TBA)	97.8	20	µg/L	100.0		97.8	40-160			†
n-Butylbenzene	10.9	1.0	µg/L	10.00		109	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.00		108	70-130			
tert-Butylbenzene	10.7	1.0	µg/L	10.00		107	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.00		101	70-130			
Carbon Disulfide	108	5.0	µg/L	100.0		108	70-130			
Carbon Tetrachloride	10.9	5.0	µg/L	10.00		109	70-130			
Chlorobenzene	11.5	1.0	µg/L	10.00		115	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.00		109	70-130			
Chloroethane	9.89	2.0	µg/L	10.00		98.9	70-130			
Chloroform	9.99	2.0	µg/L	10.00		99.9	70-130			
Chloromethane	9.70	2.0	µg/L	10.00		97.0	40-160			†
Cyclohexane	10.2	5.0	µg/L	10.00		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.84	5.0	µg/L	10.00		98.4	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.00		107	70-130			
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130			
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130			
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130			
Dichlorodifluoromethane (Freon 12)	11.4	2.0	µg/L	10.00		114	40-160			†
1,1-Dichloroethane	10.9	1.0	µg/L	10.00		109	70-130			
1,2-Dichloroethane	9.43	1.0	µg/L	10.00		94.3	70-130			
1,1-Dichloroethylene	10.0	1.0	µg/L	10.00		100	70-130			
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130			
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.00		108	70-130			
1,2-Dichloropropane	10.7	1.0	µg/L	10.00		107	70-130			
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.00		109	70-130			
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.00		104	70-130			
Diisopropyl Ether (DIPE)	9.68	0.50	µg/L	10.00		96.8	70-130			
Ethanol	104	50	µg/L	100.0		104	40-160			
Ethylbenzene	12.0	1.0	µg/L	10.00		120	70-130			
2-Hexanone (MBK)	105	10	µg/L	100.0		105	70-160			†
Isopropylbenzene (Cumene)	11.9	1.0	µg/L	10.00		119	70-130			
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.00		106	70-130			
Methyl Acetate	10.4	1.0	µg/L	10.00		104	70-130			
Methyl tert-Butyl Ether (MTBE)	9.93	1.0	µg/L	10.00		99.3	70-130			
Methyl Cyclohexane	10.6	1.0	µg/L	10.00		106	70-130			
Methylene Chloride	10.4	5.0	µg/L	10.00		104	70-130			
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100.0		106	70-160			†
Naphthalene	10.4	2.0	µg/L	10.00		104	40-130			†
n-Propylbenzene	12.0	1.0	µg/L	10.00		120	70-130			
Styrene	12.3	1.0	µg/L	10.00		123	70-130			
1,1,2,2-Tetrachloroethane	12.0	0.50	µg/L	10.00		120	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 B390819 - SW-846 5030B											
LCS (B390819-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24							
Tetrachloroethylene	11.1	1.0	µg/L	10.00		111	70-130				
Toluene	11.1	1.0	µg/L	10.00		111	70-130				
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.00		117	70-130			V-20	
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130			V-20	
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.00		105	70-130				
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.00		110	70-130				
Trichloroethylene	10.7	1.0	µg/L	10.00		107	70-130				
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.00		103	70-130				
1,2,3-Trichloropropane	11.9	2.0	µg/L	10.00		119	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.00		109	70-130				
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.00		105	70-130				
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.00		116	70-130				
Vinyl Chloride	11.0	2.0	µg/L	10.00		110	40-160				†
m+p Xylene	23.8	2.0	µg/L	20.00		119	70-130				
o-Xylene	11.8	1.0	µg/L	10.00		118	70-130				
Xylenes (total)	35.6	1.0	µg/L	30.00		119	0-200				
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.00		96.1	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.00		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*27.2*		µg/L	25.00		109	70-130				
LCS Dup (B390819-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24							
Acetone	79.8	50	µg/L	100.0		79.8	70-160	3.72	25		†
tert-Amyl Alcohol (TAA)	97.2	5.0	µg/L	100.0		97.2	70-130	2.10	25		
tert-Amyl Ethyl Ether (TAEE)	10.2	0.50	µg/L	10.00		102	70-130	0.785	25		
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.00		100	70-130	0.398	25		
Benzene	11.2	1.0	µg/L	10.00		112	70-130	1.63	25		
Bromochloromethane	10.7	1.0	µg/L	10.00		107	70-130	0.465	25		
Bromodichloromethane	10.9	0.50	µg/L	10.00		109	70-130	0.553	25		
Bromoform	11.4	1.0	µg/L	10.00		114	70-130	1.42	25		
Bromomethane	11.1	2.0	µg/L	10.00		111	40-160	1.07	25		†
2-Butanone (MEK)	84.4	20	µg/L	100.0		84.4	40-160	2.63	25		†
tert-Butyl Alcohol (TBA)	97.0	20	µg/L	100.0		97.0	40-160	0.822	25		†
n-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130	4.11	25		
sec-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130	2.44	25		
tert-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130	3.43	25		
tert-Butyl Ethyl Ether (TBEE)	9.84	0.50	µg/L	10.00		98.4	70-130	2.61	25		
Carbon Disulfide	107	5.0	µg/L	100.0		107	70-130	0.550	25		
Carbon Tetrachloride	11.1	5.0	µg/L	10.00		111	70-130	2.55	25		
Chlorobenzene	11.4	1.0	µg/L	10.00		114	70-130	0.610	25		
Chlorodibromomethane	10.8	0.50	µg/L	10.00		108	70-130	1.20	25		
Chloroethane	9.59	2.0	µg/L	10.00		95.9	70-130	3.08	25		
Chloroform	10.1	2.0	µg/L	10.00		101	70-130	0.698	25		
Chloromethane	9.72	2.0	µg/L	10.00		97.2	40-160	0.206	25		†
Cyclohexane	10.4	5.0	µg/L	10.00		104	70-130	1.17	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.46	5.0	µg/L	10.00		94.6	70-130	3.94	25		
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.00		109	70-130	2.13	25		
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	4.76	25		
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	1.75	25		
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130	2.40	25		
Dichlorodifluoromethane (Freon 12)	12.0	2.0	µg/L	10.00		120	40-160	4.70	25		†
1,1-Dichloroethane	11.0	1.0	µg/L	10.00		110	70-130	0.366	25		
1,2-Dichloroethane	9.61	1.0	µg/L	10.00		96.1	70-130	1.89	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B390819 - SW-846 5030B											
LCS Dup (B390819-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24							
1,1-Dichloroethylene	10.6	1.0	µg/L	10.00		106	70-130	5.34	25		
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130	2.50	25		
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.00		109	70-130	1.38	25		
1,2-Dichloropropane	10.9	1.0	µg/L	10.00		109	70-130	1.76	25		
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.00		107	70-130	1.67	25		
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.00		104	70-130	0.00	25		
Diisopropyl Ether (DIPE)	9.92	0.50	µg/L	10.00		99.2	70-130	2.45	25		
Ethanol	93.5	50	µg/L	100.0		93.5	40-160	10.6	25		
Ethylbenzene	11.7	1.0	µg/L	10.00		117	70-130	2.29	25		
2-Hexanone (MBK)	102	10	µg/L	100.0		102	70-160	2.07	25		†
Isopropylbenzene (Cumene)	12.1	1.0	µg/L	10.00		121	70-130	1.92	25		
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.00		105	70-130	0.854	25		
Methyl Acetate	9.67	1.0	µg/L	10.00		96.7	70-130	6.79	25		
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.00		101	70-130	1.40	25		
Methyl Cyclohexane	10.7	1.0	µg/L	10.00		107	70-130	1.41	25		
Methylene Chloride	10.9	5.0	µg/L	10.00		109	70-130	4.49	25		
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100.0		105	70-160	1.34	25		†
Naphthalene	8.96	2.0	µg/L	10.00		89.6	40-130	14.4	25		†
n-Propylbenzene	12.5	1.0	µg/L	10.00		125	70-130	4.41	25		
Styrene	12.5	1.0	µg/L	10.00		125	70-130	1.77	25		
1,1,2,2-Tetrachloroethane	12.4	0.50	µg/L	10.00		124	70-130	3.21	25		
Tetrachloroethylene	10.9	1.0	µg/L	10.00		109	70-130	2.18	25		
Toluene	11.4	1.0	µg/L	10.00		114	70-130	2.74	25		
1,2,3-Trichlorobenzene	10.3	5.0	µg/L	10.00		103	70-130	12.9	25	V-20	
1,2,4-Trichlorobenzene	9.77	1.0	µg/L	10.00		97.7	70-130	9.46	25	V-20	
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.00		106	70-130	0.946	25		
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00		109	70-130	1.28	25		
Trichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	4.73	25		
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.00		102	70-130	0.389	25		
1,2,3-Trichloropropane	11.9	2.0	µg/L	10.00		119	70-130	0.168	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.00		109	70-130	0.0920	25		
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.00		105	70-130	0.476	25		
1,3,5-Trimethylbenzene	11.7	1.0	µg/L	10.00		117	70-130	1.63	25		
Vinyl Chloride	11.0	2.0	µg/L	10.00		110	40-160	0.545	25		†
m+p Xylene	24.6	2.0	µg/L	20.00		123	70-130	3.31	25		
o-Xylene	12.5	1.0	µg/L	10.00		125	70-130	5.18	25		
Xylenes (total)	37.0	1.0	µg/L	30.00		124	0-200	3.94			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.00		96.3	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*28.4*		µg/L	25.00		114	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 B390727 - SW-846 3510C										
Blank (B390727-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24						
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, V-06
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							
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
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 B390727 - SW-846 3510C											
Blank (B390727-BLK1)				Prepared: 10/29/24 Analyzed: 10/30/24							
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	*242*		µg/L	400.0		60.5		15-110			
Surrogate: Phenol-d6	*163*		µg/L	400.0		40.8		15-110			
Surrogate: Nitrobenzene-d5	*171*		µg/L	200.0		85.3		30-130			
Surrogate: 2-Fluorobiphenyl	*163*		µg/L	200.0		81.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*421*		µg/L	400.0		105		15-110			
Surrogate: p-Terphenyl-d14	*191*		µg/L	200.0		95.6		30-130			
LCS (B390727-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24							
2,3,4,6-Tetrachlorophenol	97.1	20	µg/L	100.0		97.1		40-140			
Atrazine	122	20	µg/L	100.0		122		40-140			
Benzaldehyde	95.7	10	µg/L	100.0		95.7		40-140			
Biphenyl	97.4	20	µg/L	100.0		97.4		40-140			
Caprolactam	37.3	10	µg/L	100.0		**37.3**	*	40-140			L-04, V-06
Acenaphthene	81.1	5.0	µg/L	100.0		81.1		40-140			
Acenaphthylene	85.3	5.0	µg/L	100.0		85.3		40-140			
Acetophenone	92.9	10	µg/L	100.0		92.9		40-140			
Aniline	63.3	20	µg/L	100.0		63.3		40-140			
Anthracene	86.7	5.0	µg/L	100.0		86.7		40-140			
Benzo(a)anthracene	85.9	5.0	µg/L	100.0		85.9		40-140			
Benzo(a)pyrene	87.6	5.0	µg/L	100.0		87.6		40-140			
Benzo(b)fluoranthene	90.5	5.0	µg/L	100.0		90.5		40-140			
Benzo(g,h,i)perylene	91.4	5.0	µg/L	100.0		91.4		40-140			
Benzo(k)fluoranthene	92.0	5.0	µg/L	100.0		92.0		40-140			
Bis(2-chloroethoxy)methane	82.0	10	µg/L	100.0		82.0		40-140			
Bis(2-chloroethyl)ether	75.9	10	µg/L	100.0		75.9		40-140			
2,2'-oxybis(1-Chloropropane)	79.7	10	µg/L	100.0		79.7		40-140			
Bis(2-Ethylhexyl)phthalate	84.5	10	µg/L	100.0		84.5		40-140			
4-Bromophenylphenylether	84.7	10	µg/L	100.0		84.7		40-140			
Butylbenzylphthalate	90.2	10	µg/L	100.0		90.2		40-140			
Carbazole	88.6	10	µg/L	100.0		88.6		40-140			
4-Chloroaniline	83.7	10	µg/L	100.0		83.7		40-140			
4-Chloro-3-methylphenol	87.1	10	µg/L	100.0		87.1		30-130			
2-Chloronaphthalene	68.8	10	µg/L	100.0		68.8		40-140			
2-Chlorophenol	69.3	10	µg/L	100.0		69.3		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 B390727 - SW-846 3510C											
LCS (B390727-BS1)				Prepared: 10/29/24 Analyzed: 10/30/24							
4-Chlorophenylphenylether	85.4	10	µg/L	100.0		85.4	40-140				
Chrysene	83.9	5.0	µg/L	100.0		83.9	40-140				
Dibenz(a,h)anthracene	88.3	5.0	µg/L	100.0		88.3	40-140			V-04	
Dibenzofuran	85.7	5.0	µg/L	100.0		85.7	40-140				
Di-n-butylphthalate	84.8	10	µg/L	100.0		84.8	40-140				
3,3-Dichlorobenzidine	43.3	10	µg/L	100.0		43.3	40-140				
2,4-Dichlorophenol	78.7	10	µg/L	100.0		78.7	30-130				
Diethylphthalate	83.8	10	µg/L	100.0		83.8	40-140				
2,4-Dimethylphenol	80.8	10	µg/L	100.0		80.8	30-130				
Dimethylphthalate	86.8	10	µg/L	100.0		86.8	40-140				
4,6-Dinitro-2-methylphenol	83.9	20	µg/L	100.0		83.9	30-130				
2,4-Dinitrophenol	79.3	10	µg/L	100.0		79.3	30-130			V-04	
2,4-Dinitrotoluene	91.1	10	µg/L	100.0		91.1	40-140				
2,6-Dinitrotoluene	91.5	10	µg/L	100.0		91.5	40-140				
Di-n-octylphthalate	86.5	10	µg/L	100.0		86.5	40-140			V-04	
Fluoranthene	88.8	5.0	µg/L	100.0		88.8	40-140				
Fluorene	87.4	5.0	µg/L	100.0		87.4	40-140				
Hexachlorobenzene	87.3	10	µg/L	100.0		87.3	40-140				
Hexachlorobutadiene	53.4	10	µg/L	100.0		53.4	40-140				
Hexachlorocyclopentadiene	73.0	10	µg/L	100.0		73.0	30-140				†
Hexachloroethane	49.9	10	µg/L	100.0		49.9	40-140				
Indeno(1,2,3-cd)pyrene	91.8	5.0	µg/L	100.0		91.8	40-140			V-04	
Isophorone	87.9	10	µg/L	100.0		87.9	40-140				
1-Methylnaphthalene	71.6	5.0	µg/L	100.0		71.6	40-140				
2-Methylnaphthalene	69.7	5.0	µg/L	100.0		69.7	40-140				
2-Methylphenol	70.2	10	µg/L	100.0		70.2	30-130				
3/4-Methylphenol	68.8	10	µg/L	100.0		68.8	30-130				
Naphthalene	67.5	5.0	µg/L	100.0		67.5	40-140				
2-Nitroaniline	104	10	µg/L	100.0		104	40-140				
3-Nitroaniline	88.4	10	µg/L	100.0		88.4	40-140				
4-Nitroaniline	87.1	10	µg/L	100.0		87.1	40-140				
Nitrobenzene	79.1	10	µg/L	100.0		79.1	40-140				
2-Nitrophenol	78.9	10	µg/L	100.0		78.9	30-130				
4-Nitrophenol	52.3	10	µg/L	100.0		52.3	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	83.0	10	µg/L	100.0		83.0	40-140				
N-Nitrosodi-n-propylamine	76.2	10	µg/L	100.0		76.2	40-140				
Pentachlorophenol	84.7	10	µg/L	100.0		84.7	30-130				
Phenanthrene	86.9	5.0	µg/L	100.0		86.9	40-140				
Phenol	39.4	10	µg/L	100.0		39.4	20-130				†
Pyrene	89.8	5.0	µg/L	100.0		89.8	40-140				
Pyridine	17.5	20	µg/L	100.0		17.5	10-140			J, V-34	†
1,2,4,5-Tetrachlorobenzene	93.4	10	µg/L	100.0		93.4	40-140				
2,4,5-Trichlorophenol	84.2	10	µg/L	100.0		84.2	30-130				
2,4,6-Trichlorophenol	85.1	10	µg/L	100.0		85.1	30-130				
Surrogate: 2-Fluorophenol	*246*		µg/L	400.0		61.4	15-110				
Surrogate: Phenol-d6	*181*		µg/L	400.0		45.1	15-110				
Surrogate: Nitrobenzene-d5	*171*		µg/L	200.0		85.7	30-130				
Surrogate: 2-Fluorobiphenyl	*169*		µg/L	200.0		84.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*438*		µg/L	400.0		109	15-110				
Surrogate: p-Terphenyl-d14	*194*		µg/L	200.0		96.9	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 B390727 - SW-846 3510C												
LCS Dup (B390727-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24								
2,3,4,6-Tetrachlorophenol	80.4	20	µg/L	100.0		80.4		40-140	18.9	20		
Atrazine	136	20	µg/L	100.0		136		40-140	11.1	20		
Benzaldehyde	104	10	µg/L	100.0		104		40-140	8.36	20		
Biphenyl	103	20	µg/L	100.0		103		40-140	6.09	20		
Caprolactam	39.5	10	µg/L	100.0		**39.5**	*	40-140	5.86	20	L-04, V-06	
Acenaphthene	85.8	5.0	µg/L	100.0		85.8		40-140	5.68	20		
Acenaphthylene	91.4	5.0	µg/L	100.0		91.4		40-140	6.96	20		
Acetophenone	101	10	µg/L	100.0		101		40-140	8.87	20		
Aniline	75.8	20	µg/L	100.0		75.8		40-140	18.0	50		‡
Anthracene	95.5	5.0	µg/L	100.0		95.5		40-140	9.58	20		
Benzo(a)anthracene	93.4	5.0	µg/L	100.0		93.4		40-140	8.37	20		
Benzo(a)pyrene	96.7	5.0	µg/L	100.0		96.7		40-140	9.86	20		
Benzo(b)fluoranthene	96.3	5.0	µg/L	100.0		96.3		40-140	6.21	20		
Benzo(g,h,i)perylene	108	5.0	µg/L	100.0		108		40-140	16.3	20		
Benzo(k)fluoranthene	97.9	5.0	µg/L	100.0		97.9		40-140	6.15	20		
Bis(2-chloroethoxy)methane	91.8	10	µg/L	100.0		91.8		40-140	11.3	20		
Bis(2-chloroethyl)ether	82.2	10	µg/L	100.0		82.2		40-140	7.91	20		
2,2'-oxybis(1-Chloropropane)	88.2	10	µg/L	100.0		88.2		40-140	10.1	20		
Bis(2-Ethylhexyl)phthalate	92.6	10	µg/L	100.0		92.6		40-140	9.23	20		
4-Bromophenylphenylether	89.7	10	µg/L	100.0		89.7		40-140	5.76	20		
Butylbenzylphthalate	97.8	10	µg/L	100.0		97.8		40-140	8.15	20		
Carbazole	96.4	10	µg/L	100.0		96.4		40-140	8.40	20		
4-Chloroaniline	90.6	10	µg/L	100.0		90.6		40-140	7.85	20		
4-Chloro-3-methylphenol	90.8	10	µg/L	100.0		90.8		30-130	4.09	20		
2-Chloronaphthalene	79.6	10	µg/L	100.0		79.6		40-140	14.6	20		
2-Chlorophenol	66.1	10	µg/L	100.0		66.1		30-130	4.77	20		
4-Chlorophenylphenylether	91.4	10	µg/L	100.0		91.4		40-140	6.71	20		
Chrysene	91.8	5.0	µg/L	100.0		91.8		40-140	9.07	20		
Dibenz(a,h)anthracene	102	5.0	µg/L	100.0		102		40-140	14.4	20	V-04	
Dibenzofuran	92.4	5.0	µg/L	100.0		92.4		40-140	7.50	20		
Di-n-butylphthalate	92.4	10	µg/L	100.0		92.4		40-140	8.59	20		
3,3-Dichlorobenzidine	49.8	10	µg/L	100.0		49.8		40-140	14.0	20		
2,4-Dichlorophenol	74.5	10	µg/L	100.0		74.5		30-130	5.50	20		
Diethylphthalate	91.0	10	µg/L	100.0		91.0		40-140	8.22	20		
2,4-Dimethylphenol	88.9	10	µg/L	100.0		88.9		30-130	9.56	20		
Dimethylphthalate	93.5	10	µg/L	100.0		93.5		40-140	7.44	50		‡
4,6-Dinitro-2-methylphenol	69.6	20	µg/L	100.0		69.6		30-130	18.5	50		‡
2,4-Dinitrophenol	56.2	10	µg/L	100.0		56.2		30-130	34.2	50	V-04	‡
2,4-Dinitrotoluene	101	10	µg/L	100.0		101		40-140	10.4	20		
2,6-Dinitrotoluene	99.2	10	µg/L	100.0		99.2		40-140	8.07	20		
Di-n-octylphthalate	93.6	10	µg/L	100.0		93.6		40-140	7.87	20	V-04	
Fluoranthene	97.9	5.0	µg/L	100.0		97.9		40-140	9.75	20		
Fluorene	95.0	5.0	µg/L	100.0		95.0		40-140	8.36	20		
Hexachlorobenzene	92.9	10	µg/L	100.0		92.9		40-140	6.23	20		
Hexachlorobutadiene	59.1	10	µg/L	100.0		59.1		40-140	10.1	20		
Hexachlorocyclopentadiene	79.3	10	µg/L	100.0		79.3		30-140	8.34	50		† ‡
Hexachloroethane	49.2	10	µg/L	100.0		49.2		40-140	1.51	50		‡
Indeno(1,2,3-cd)pyrene	109	5.0	µg/L	100.0		109		40-140	16.9	50	V-04	‡
Isophorone	93.7	10	µg/L	100.0		93.7		40-140	6.33	20		
1-Methylnaphthalene	78.8	5.0	µg/L	100.0		78.8		40-140	9.61	20		
2-Methylnaphthalene	75.1	5.0	µg/L	100.0		75.1		40-140	7.42	20		
2-Methylphenol	75.9	10	µg/L	100.0		75.9		30-130	7.86	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 B390727 - SW-846 3510C											
LCS Dup (B390727-BSD1)				Prepared: 10/29/24 Analyzed: 10/30/24							
3/4-Methylphenol	74.3	10	µg/L	100.0		74.3	30-130	7.68	20		
Naphthalene	73.3	5.0	µg/L	100.0		73.3	40-140	8.28	20		
2-Nitroaniline	111	10	µg/L	100.0		111	40-140	7.15	20		
3-Nitroaniline	101	10	µg/L	100.0		101	40-140	13.5	20		
4-Nitroaniline	96.7	10	µg/L	100.0		96.7	40-140	10.5	20		
Nitrobenzene	84.1	10	µg/L	100.0		84.1	40-140	6.15	20		
2-Nitrophenol	71.4	10	µg/L	100.0		71.4	30-130	10.1	20		
4-Nitrophenol	42.8	10	µg/L	100.0		42.8	10-130	19.8	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	91.1	10	µg/L	100.0		91.1	40-140	9.28	20		
N-Nitrosodi-n-propylamine	80.5	10	µg/L	100.0		80.5	40-140	5.52	20		
Pentachlorophenol	69.6	10	µg/L	100.0		69.6	30-130	19.5	50		‡
Phenanthrene	94.5	5.0	µg/L	100.0		94.5	40-140	8.43	20		
Phenol	41.1	10	µg/L	100.0		41.1	20-130	4.18	20		†
Pyrene	95.1	5.0	µg/L	100.0		95.1	40-140	5.76	20		
Pyridine	25.1	20	µg/L	100.0		25.1	10-140	35.8	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	99.2	10	µg/L	100.0		99.2	40-140	6.05	20		
2,4,5-Trichlorophenol	76.1	10	µg/L	100.0		76.1	30-130	10.0	20		
2,4,6-Trichlorophenol	69.6	10	µg/L	100.0		69.6	30-130	19.9	50		‡
Surrogate: 2-Fluorophenol	*195*		µg/L	400.0		48.7	15-110				
Surrogate: Phenol-d6	*163*		µg/L	400.0		40.9	15-110				
Surrogate: Nitrobenzene-d5	*170*		µg/L	200.0		85.2	30-130				
Surrogate: 2-Fluorobiphenyl	*166*		µg/L	200.0		83.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*359*		µg/L	400.0		89.6	15-110				
Surrogate: p-Terphenyl-d14	*190*		µg/L	200.0		95.1	30-130				
Batch B390878 - SW-846 3510C											
Blank (B390878-BLK1)				Prepared: 10/30/24 Analyzed: 11/04/24							
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							R-05	
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								

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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 B390878 - SW-846 3510C											
Blank (B390878-BLK1)				Prepared: 10/30/24 Analyzed: 11/04/24							
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								R-05, 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								
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	*268*		µg/L	400.0		67.0		15-110			
Surrogate: Phenol-d6	*181*		µg/L	400.0		45.3		15-110			
Surrogate: Nitrobenzene-d5	*196*		µg/L	200.0		97.8		30-130			
Surrogate: 2-Fluorobiphenyl	*175*		µg/L	200.0		87.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*458*		µg/L	400.0		**114**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*224*		µg/L	200.0		112		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 B390878 - SW-846 3510C											
LCS (B390878-BS1)				Prepared: 10/30/24 Analyzed: 11/04/24							
2,3,4,6-Tetrachlorophenol	92.8	20	µg/L	100.0		92.8		40-140			R-05
Atrazine	126	20	µg/L	100.0		126		40-140			
Benzaldehyde	96.9	10	µg/L	100.0		96.9		40-140			
Biphenyl	98.3	20	µg/L	100.0		98.3		40-140			
Caprolactam	32.9	10	µg/L	100.0		**32.9**	*	40-140			L-04
Acenaphthene	79.2	5.0	µg/L	100.0		79.2		40-140			
Acenaphthylene	85.8	5.0	µg/L	100.0		85.8		40-140			
Acetophenone	97.7	10	µg/L	100.0		97.7		40-140			
Aniline	69.3	20	µg/L	100.0		69.3		40-140			V-05
Anthracene	87.6	5.0	µg/L	100.0		87.6		40-140			
Benzo(a)anthracene	87.9	5.0	µg/L	100.0		87.9		40-140			
Benzo(a)pyrene	86.5	5.0	µg/L	100.0		86.5		40-140			
Benzo(b)fluoranthene	91.1	5.0	µg/L	100.0		91.1		40-140			
Benzo(g,h,i)perylene	90.9	5.0	µg/L	100.0		90.9		40-140			
Benzo(k)fluoranthene	90.1	5.0	µg/L	100.0		90.1		40-140			
Bis(2-chloroethoxy)methane	84.4	10	µg/L	100.0		84.4		40-140			
Bis(2-chloroethyl)ether	76.4	10	µg/L	100.0		76.4		40-140			
2,2'-oxybis(1-Chloropropane)	79.0	10	µg/L	100.0		79.0		40-140			
Bis(2-Ethylhexyl)phthalate	84.4	10	µg/L	100.0		84.4		40-140			
4-Bromophenylphenylether	88.0	10	µg/L	100.0		88.0		40-140			
Butylbenzylphthalate	90.1	10	µg/L	100.0		90.1		40-140			
Carbazole	88.3	10	µg/L	100.0		88.3		40-140			
4-Chloroaniline	84.4	10	µg/L	100.0		84.4		40-140			
4-Chloro-3-methylphenol	87.2	10	µg/L	100.0		87.2		30-130			
2-Chloronaphthalene	68.0	10	µg/L	100.0		68.0		40-140			
2-Chlorophenol	73.6	10	µg/L	100.0		73.6		30-130			
4-Chlorophenylphenylether	87.1	10	µg/L	100.0		87.1		40-140			
Chrysene	84.0	5.0	µg/L	100.0		84.0		40-140			
Dibenz(a,h)anthracene	86.5	5.0	µg/L	100.0		86.5		40-140			V-04
Dibenzofuran	86.6	5.0	µg/L	100.0		86.6		40-140			
Di-n-butylphthalate	82.8	10	µg/L	100.0		82.8		40-140			
3,3-Dichlorobenzidine	39.9	10	µg/L	100.0		**39.9**	*	40-140			L-07
2,4-Dichlorophenol	84.8	10	µg/L	100.0		84.8		30-130			
Diethylphthalate	84.5	10	µg/L	100.0		84.5		40-140			
2,4-Dimethylphenol	75.3	10	µg/L	100.0		75.3		30-130			
Dimethylphthalate	87.4	10	µg/L	100.0		87.4		40-140			
4,6-Dinitro-2-methylphenol	76.5	20	µg/L	100.0		76.5		30-130			
2,4-Dinitrophenol	55.2	10	µg/L	100.0		55.2		30-130			R-05, V-04, V-05
2,4-Dinitrotoluene	88.3	10	µg/L	100.0		88.3		40-140			
2,6-Dinitrotoluene	89.4	10	µg/L	100.0		89.4		40-140			
Di-n-octylphthalate	86.8	10	µg/L	100.0		86.8		40-140			V-04
Fluoranthene	90.3	5.0	µg/L	100.0		90.3		40-140			
Fluorene	88.1	5.0	µg/L	100.0		88.1		40-140			
Hexachlorobenzene	90.3	10	µg/L	100.0		90.3		40-140			
Hexachlorobutadiene	52.8	10	µg/L	100.0		52.8		40-140			
Hexachlorocyclopentadiene	52.9	10	µg/L	100.0		52.9		30-140			†
Hexachloroethane	46.4	10	µg/L	100.0		46.4		40-140			
Indeno(1,2,3-cd)pyrene	90.0	5.0	µg/L	100.0		90.0		40-140			V-04
Isophorone	89.1	10	µg/L	100.0		89.1		40-140			
1-Methylnaphthalene	71.9	5.0	µg/L	100.0		71.9		40-140			
2-Methylnaphthalene	69.7	5.0	µg/L	100.0		69.7		40-140			
2-Methylphenol	72.9	10	µg/L	100.0		72.9		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 B390878 - SW-846 3510C												
LCS (B390878-BS1)				Prepared: 10/30/24 Analyzed: 11/04/24								
3/4-Methylphenol	72.1	10	µg/L	100.0		72.1	30-130					
Naphthalene	66.4	5.0	µg/L	100.0		66.4	40-140					
2-Nitroaniline	104	10	µg/L	100.0		104	40-140					
3-Nitroaniline	83.0	10	µg/L	100.0		83.0	40-140					
4-Nitroaniline	81.8	10	µg/L	100.0		81.8	40-140					
Nitrobenzene	78.0	10	µg/L	100.0		78.0	40-140					
2-Nitrophenol	76.9	10	µg/L	100.0		76.9	30-130					
4-Nitrophenol	44.1	10	µg/L	100.0		44.1	10-130					†
N-Nitrosodiphenylamine/Diphenylamine	76.1	10	µg/L	100.0		76.1	40-140					
N-Nitrosodi-n-propylamine	74.7	10	µg/L	100.0		74.7	40-140					
Pentachlorophenol	80.8	10	µg/L	100.0		80.8	30-130					
Phenanthrene	87.1	5.0	µg/L	100.0		87.1	40-140					
Phenol	41.1	10	µg/L	100.0		41.1	20-130					†
Pyrene	90.6	5.0	µg/L	100.0		90.6	40-140					
Pyridine	18.4	20	µg/L	100.0		18.4	10-140				J, V-34	†
1,2,4,5-Tetrachlorobenzene	94.9	10	µg/L	100.0		94.9	40-140					
2,4,5-Trichlorophenol	85.7	10	µg/L	100.0		85.7	30-130					
2,4,6-Trichlorophenol	83.6	10	µg/L	100.0		83.6	30-130					
Surrogate: 2-Fluorophenol	*234*		µg/L	400.0		58.4	15-110					
Surrogate: Phenol-d6	*172*		µg/L	400.0		43.1	15-110					
Surrogate: Nitrobenzene-d5	*164*		µg/L	200.0		82.2	30-130					
Surrogate: 2-Fluorobiphenyl	*161*		µg/L	200.0		80.6	30-130					
Surrogate: 2,4,6-Tribromophenol	*417*		µg/L	400.0		104	15-110					
Surrogate: p-Terphenyl-d14	*185*		µg/L	200.0		92.3	30-130					
LCS Dup (B390878-BSD1)				Prepared: 10/30/24 Analyzed: 11/04/24								
2,3,4,6-Tetrachlorophenol	68.5	20	µg/L	100.0		68.5	40-140	**30.1**	*	20	R-05	
Atrazine	123	20	µg/L	100.0		123	40-140	2.57		20		
Benzaldehyde	104	10	µg/L	100.0		104	40-140	6.92		20		
Biphenyl	97.9	20	µg/L	100.0		97.9	40-140	0.377		20		
Caprolactam	34.9	10	µg/L	100.0		**34.9**	* 40-140	5.99		20	L-04	
Acenaphthene	76.5	5.0	µg/L	100.0		76.5	40-140	3.48		20		
Acenaphthylene	83.6	5.0	µg/L	100.0		83.6	40-140	2.70		20		
Acetophenone	100	10	µg/L	100.0		100	40-140	2.40		20		
Aniline	73.5	20	µg/L	100.0		73.5	40-140	5.92		50	V-05	‡
Anthracene	87.1	5.0	µg/L	100.0		87.1	40-140	0.584		20		
Benzo(a)anthracene	85.6	5.0	µg/L	100.0		85.6	40-140	2.55		20		
Benzo(a)pyrene	88.2	5.0	µg/L	100.0		88.2	40-140	1.85		20		
Benzo(b)fluoranthene	88.9	5.0	µg/L	100.0		88.9	40-140	2.46		20		
Benzo(g,h,i)perylene	90.0	5.0	µg/L	100.0		90.0	40-140	0.961		20		
Benzo(k)fluoranthene	90.0	5.0	µg/L	100.0		90.0	40-140	0.122		20		
Bis(2-chloroethoxy)methane	83.8	10	µg/L	100.0		83.8	40-140	0.701		20		
Bis(2-chloroethyl)ether	81.3	10	µg/L	100.0		81.3	40-140	6.20		20		
2,2'-oxybis(1-Chloropropane)	81.3	10	µg/L	100.0		81.3	40-140	2.93		20		
Bis(2-Ethylhexyl)phthalate	83.6	10	µg/L	100.0		83.6	40-140	0.929		20		
4-Bromophenylphenylether	86.1	10	µg/L	100.0		86.1	40-140	2.10		20		
Butylbenzylphthalate	88.1	10	µg/L	100.0		88.1	40-140	2.22		20		
Carbazole	88.3	10	µg/L	100.0		88.3	40-140	0.0453		20		
4-Chloroaniline	82.9	10	µg/L	100.0		82.9	40-140	1.70		20		
4-Chloro-3-methylphenol	86.4	10	µg/L	100.0		86.4	30-130	0.922		20		
2-Chloronaphthalene	68.9	10	µg/L	100.0		68.9	40-140	1.37		20		
2-Chlorophenol	68.4	10	µg/L	100.0		68.4	30-130	7.36		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 B390878 - SW-846 3510C												
LCS Dup (B390878-BSD1)				Prepared: 10/30/24 Analyzed: 11/04/24								
4-Chlorophenylphenylether	84.2	10	µg/L	100.0		84.2	40-140	3.46		20		
Chrysene	83.2	5.0	µg/L	100.0		83.2	40-140	0.944		20		
Dibenz(a,h)anthracene	86.6	5.0	µg/L	100.0		86.6	40-140	0.0231		20	V-04	
Dibenzofuran	85.2	5.0	µg/L	100.0		85.2	40-140	1.57		20		
Di-n-butylphthalate	82.5	10	µg/L	100.0		82.5	40-140	0.327		20		
3,3-Dichlorobenzidine	40.7	10	µg/L	100.0		40.7	40-140	1.89		20		
2,4-Dichlorophenol	76.5	10	µg/L	100.0		76.5	30-130	10.3		20		
Diethylphthalate	82.7	10	µg/L	100.0		82.7	40-140	2.12		20		
2,4-Dimethylphenol	76.0	10	µg/L	100.0		76.0	30-130	0.912		20		
Dimethylphthalate	86.8	10	µg/L	100.0		86.8	40-140	0.643		50		‡
4,6-Dinitro-2-methylphenol	58.2	20	µg/L	100.0		58.2	30-130	27.2		50		‡
2,4-Dinitrophenol	30.5	10	µg/L	100.0		30.5	30-130	**57.7**	*	50	R-05, V-04, V-05	‡
2,4-Dinitrotoluene	88.2	10	µg/L	100.0		88.2	40-140	0.193		20		
2,6-Dinitrotoluene	89.0	10	µg/L	100.0		89.0	40-140	0.527		20		
Di-n-octylphthalate	85.8	10	µg/L	100.0		85.8	40-140	1.22		20	V-04	
Fluoranthene	89.3	5.0	µg/L	100.0		89.3	40-140	1.06		20		
Fluorene	86.7	5.0	µg/L	100.0		86.7	40-140	1.61		20		
Hexachlorobenzene	90.9	10	µg/L	100.0		90.9	40-140	0.651		20		
Hexachlorobutadiene	52.5	10	µg/L	100.0		52.5	40-140	0.570		20		
Hexachlorocyclopentadiene	57.8	10	µg/L	100.0		57.8	30-140	8.94		50		† ‡
Hexachloroethane	47.3	10	µg/L	100.0		47.3	40-140	1.73		50		‡
Indeno(1,2,3-cd)pyrene	91.1	5.0	µg/L	100.0		91.1	40-140	1.12		50	V-04	‡
Isophorone	87.7	10	µg/L	100.0		87.7	40-140	1.60		20		
1-Methylnaphthalene	72.5	5.0	µg/L	100.0		72.5	40-140	0.873		20		
2-Methylnaphthalene	68.4	5.0	µg/L	100.0		68.4	40-140	1.91		20		
2-Methylphenol	74.3	10	µg/L	100.0		74.3	30-130	1.86		20		
3/4-Methylphenol	71.0	10	µg/L	100.0		71.0	30-130	1.47		20		
Naphthalene	67.1	5.0	µg/L	100.0		67.1	40-140	0.973		20		
2-Nitroaniline	103	10	µg/L	100.0		103	40-140	0.494		20		
3-Nitroaniline	85.6	10	µg/L	100.0		85.6	40-140	3.14		20		
4-Nitroaniline	80.6	10	µg/L	100.0		80.6	40-140	1.50		20		
Nitrobenzene	80.8	10	µg/L	100.0		80.8	40-140	3.47		20		
2-Nitrophenol	67.0	10	µg/L	100.0		67.0	30-130	13.7		20		
4-Nitrophenol	29.2	10	µg/L	100.0		29.2	10-130	40.4		50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	75.9	10	µg/L	100.0		75.9	40-140	0.224		20		
N-Nitrosodi-n-propylamine	77.9	10	µg/L	100.0		77.9	40-140	4.25		20		
Pentachlorophenol	53.3	10	µg/L	100.0		53.3	30-130	41.0		50		‡
Phenanthrene	86.4	5.0	µg/L	100.0		86.4	40-140	0.784		20		
Phenol	38.4	10	µg/L	100.0		38.4	20-130	6.92		20		†
Pyrene	88.6	5.0	µg/L	100.0		88.6	40-140	2.29		20		
Pyridine	22.3	20	µg/L	100.0		22.3	10-140	18.9		50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	96.0	10	µg/L	100.0		96.0	40-140	1.23		20		
2,4,5-Trichlorophenol	71.1	10	µg/L	100.0		71.1	30-130	18.6		20		
2,4,6-Trichlorophenol	63.8	10	µg/L	100.0		63.8	30-130	26.9		50		‡
Surrogate: 2-Fluorophenol	*196*		µg/L	400.0		49.0	15-110					
Surrogate: Phenol-d6	*165*		µg/L	400.0		41.2	15-110					
Surrogate: Nitrobenzene-d5	*165*		µg/L	200.0		82.3	30-130					
Surrogate: 2-Fluorobiphenyl	*156*		µg/L	200.0		78.0	30-130					
Surrogate: 2,4,6-Tribromophenol	*342*		µg/L	400.0		85.5	15-110					
Surrogate: p-Terphenyl-d14	*175*		µg/L	200.0		87.4	30-130					

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B390945 - SW-846 3546										
Blank (B390945-BLK1)				Prepared: 10/30/24 Analyzed: 11/01/24						
2,3,4,6-Tetrachlorophenol	ND	0.65	mg/Kg wet							
Atrazine	ND	0.65	mg/Kg wet							
Benzaldehyde	ND	0.33	mg/Kg wet							V-05
Biphenyl	ND	0.65	mg/Kg wet							
Caprolactam	ND	0.33	mg/Kg wet							
Acenaphthene	ND	0.16	mg/Kg wet							
Acenaphthylene	ND	0.16	mg/Kg wet							
Acetophenone	ND	0.33	mg/Kg wet							
Aniline	ND	0.33	mg/Kg wet							
Anthracene	ND	0.16	mg/Kg wet							
Benzo(a)anthracene	ND	0.16	mg/Kg wet							
Benzo(a)pyrene	ND	0.16	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.16	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.16	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.16	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet							
2,2'-oxybis(1-Chloropropane)	ND	0.33	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet							
4-Bromophenylphenylether	ND	0.33	mg/Kg wet							
Butylbenzylphthalate	ND	0.33	mg/Kg wet							
Carbazole	ND	0.16	mg/Kg wet							
4-Chloroaniline	ND	0.64	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.64	mg/Kg wet							
2-Chloronaphthalene	ND	0.33	mg/Kg wet							
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.16	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.16	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.16	mg/Kg wet							
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.64	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.16	mg/Kg wet							
Fluorene	ND	0.16	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.16	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.16	mg/Kg wet							
2-Methylnaphthalene	ND	0.16	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							

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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 B390945 - SW-846 3546											
Blank (B390945-BLK1)				Prepared: 10/30/24 Analyzed: 11/01/24							
3/4-Methylphenol	ND	0.33	mg/Kg wet								
Naphthalene	ND	0.16	mg/Kg wet								
2-Nitroaniline	ND	0.33	mg/Kg wet								
3-Nitroaniline	ND	0.33	mg/Kg wet								
4-Nitroaniline	ND	0.33	mg/Kg wet								
Nitrobenzene	ND	0.33	mg/Kg wet								
2-Nitrophenol	ND	0.33	mg/Kg wet								
4-Nitrophenol	ND	0.64	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet								
Pentachlorophenol	ND	0.33	mg/Kg wet								
Phenanthrene	ND	0.16	mg/Kg wet								
Phenol	ND	0.33	mg/Kg wet								
Pyrene	ND	0.16	mg/Kg wet								
Pyridine	ND	0.33	mg/Kg wet							L-04, V-34	
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet								
Surrogate: 2-Fluorophenol	*4.65*		mg/Kg wet	6.464		72.0	30-130				
Surrogate: Phenol-d6	*4.81*		mg/Kg wet	6.464		74.4	30-130				
Surrogate: Nitrobenzene-d5	*2.32*		mg/Kg wet	3.232		71.6	30-130				
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.232		70.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.85*		mg/Kg wet	6.464		90.4	30-130				
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.232		77.7	30-130				
LCS (B390945-BS1)				Prepared: 10/30/24 Analyzed: 11/01/24							
2,3,4,6-Tetrachlorophenol	1.28	0.65	mg/Kg wet	1.615		79.4	40-140				
Atrazine	1.30	0.65	mg/Kg wet	1.615		80.7	40-140				
Benzaldehyde	1.00	0.33	mg/Kg wet	1.615		62.0	40-140			V-05	
Biphenyl	1.16	0.65	mg/Kg wet	1.615		71.9	40-140				
Caprolactam	1.32	0.33	mg/Kg wet	1.615		81.7	40-140				
Acenaphthene	1.17	0.16	mg/Kg wet	1.615		72.7	40-140				
Acenaphthylene	1.23	0.16	mg/Kg wet	1.615		76.3	40-140				
Acetophenone	1.07	0.33	mg/Kg wet	1.615		66.3	40-140				
Aniline	1.16	0.33	mg/Kg wet	1.615		71.9	10-140				†
Anthracene	1.16	0.16	mg/Kg wet	1.615		72.1	40-140				
Benzo(a)anthracene	1.17	0.16	mg/Kg wet	1.615		72.5	40-140				
Benzo(a)pyrene	1.21	0.16	mg/Kg wet	1.615		74.7	40-140				
Benzo(b)fluoranthene	1.19	0.16	mg/Kg wet	1.615		73.5	40-140				
Benzo(g,h,i)perylene	1.31	0.16	mg/Kg wet	1.615		81.3	40-140				
Benzo(k)fluoranthene	1.25	0.16	mg/Kg wet	1.615		77.5	40-140				
Bis(2-chloroethoxy)methane	1.20	0.33	mg/Kg wet	1.615		74.0	40-140				
Bis(2-chloroethyl)ether	1.13	0.33	mg/Kg wet	1.615		70.1	40-140				
2,2'-oxybis(1-Chloropropane)	1.38	0.33	mg/Kg wet	1.615		85.7	40-140				
Bis(2-Ethylhexyl)phthalate	1.24	0.33	mg/Kg wet	1.615		76.8	40-140				
4-Bromophenylphenylether	1.26	0.33	mg/Kg wet	1.615		78.2	40-140				
Butylbenzylphthalate	1.20	0.33	mg/Kg wet	1.615		74.2	40-140				
Carbazole	1.18	0.16	mg/Kg wet	1.615		72.8	40-140				
4-Chloroaniline	1.03	0.64	mg/Kg wet	1.615		63.8	10-140				†
4-Chloro-3-methylphenol	1.22	0.64	mg/Kg wet	1.615		75.3	30-130				
2-Chloronaphthalene	1.04	0.33	mg/Kg wet	1.615		64.6	40-140				
2-Chlorophenol	1.09	0.33	mg/Kg wet	1.615		67.5	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 B390945 - SW-846 3546												
LCS (B390945-BS1)				Prepared: 10/30/24 Analyzed: 11/01/24								
4-Chlorophenylphenylether	1.26	0.33	mg/Kg wet	1.615		77.8		40-140				
Chrysene	1.14	0.16	mg/Kg wet	1.615		70.5		40-140				
Dibenz(a,h)anthracene	1.30	0.16	mg/Kg wet	1.615		80.8		40-140				
Dibenzofuran	1.23	0.33	mg/Kg wet	1.615		76.0		40-140				
Di-n-butylphthalate	1.16	0.33	mg/Kg wet	1.615		72.0		40-140				
3,3-Dichlorobenzidine	1.18	0.16	mg/Kg wet	1.615		73.0		20-140				†
2,4-Dichlorophenol	1.18	0.33	mg/Kg wet	1.615		73.2		30-130				
Diethylphthalate	1.22	0.33	mg/Kg wet	1.615		75.4		40-140				
2,4-Dimethylphenol	1.13	0.33	mg/Kg wet	1.615		69.7		30-130				
Dimethylphthalate	1.27	0.33	mg/Kg wet	1.615		78.5		40-140				
4,6-Dinitro-2-methylphenol	1.34	0.33	mg/Kg wet	1.615		82.9		30-130				
2,4-Dinitrophenol	1.36	0.64	mg/Kg wet	1.615		84.4		30-130				
2,4-Dinitrotoluene	1.43	0.33	mg/Kg wet	1.615		88.6		40-140				
2,6-Dinitrotoluene	1.39	0.33	mg/Kg wet	1.615		86.1		40-140				
Di-n-octylphthalate	1.20	0.33	mg/Kg wet	1.615		74.4		40-140				
Fluoranthene	1.16	0.16	mg/Kg wet	1.615		72.1		40-140				
Fluorene	1.19	0.16	mg/Kg wet	1.615		74.0		40-140				
Hexachlorobenzene	1.30	0.33	mg/Kg wet	1.615		80.3		40-140				
Hexachlorobutadiene	1.08	0.33	mg/Kg wet	1.615		67.0		40-140				
Hexachlorocyclopentadiene	1.20	0.33	mg/Kg wet	1.615		74.1		40-140				
Hexachloroethane	1.03	0.33	mg/Kg wet	1.615		64.1		40-140				
Indeno(1,2,3-cd)pyrene	1.37	0.16	mg/Kg wet	1.615		84.6		40-140				
Isophorone	1.19	0.33	mg/Kg wet	1.615		73.5		40-140				
1-Methylnaphthalene	1.14	0.16	mg/Kg wet	1.615		70.3		40-140				
2-Methylnaphthalene	1.10	0.16	mg/Kg wet	1.615		68.0		40-140				
2-Methylphenol	1.16	0.33	mg/Kg wet	1.615		72.1		30-130				
3/4-Methylphenol	1.25	0.33	mg/Kg wet	1.615		77.7		30-130				
Naphthalene	1.07	0.16	mg/Kg wet	1.615		66.3		40-140				
2-Nitroaniline	1.54	0.33	mg/Kg wet	1.615		95.2		40-140				
3-Nitroaniline	1.22	0.33	mg/Kg wet	1.615		75.5		30-140				†
4-Nitroaniline	1.34	0.33	mg/Kg wet	1.615		83.0		40-140				
Nitrobenzene	1.09	0.33	mg/Kg wet	1.615		67.6		40-140				
2-Nitrophenol	1.17	0.33	mg/Kg wet	1.615		72.7		30-130				
4-Nitrophenol	1.19	0.64	mg/Kg wet	1.615		73.8		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.22	0.33	mg/Kg wet	1.615		75.7		40-140				
N-Nitrosodi-n-propylamine	1.16	0.33	mg/Kg wet	1.615		71.8		40-140				
Pentachlorophenol	1.18	0.33	mg/Kg wet	1.615		73.4		30-130				
Phenanthrene	1.15	0.16	mg/Kg wet	1.615		71.4		40-140				
Phenol	1.18	0.33	mg/Kg wet	1.615		73.1		30-130				
Pyrene	1.17	0.16	mg/Kg wet	1.615		72.5		40-140				
Pyridine	0.390	0.33	mg/Kg wet	1.615		**24.2**	*	30-140			L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.05	0.33	mg/Kg wet	1.615		65.1		40-140				
2,4,5-Trichlorophenol	1.24	0.33	mg/Kg wet	1.615		77.0		30-130				
2,4,6-Trichlorophenol	1.22	0.33	mg/Kg wet	1.615		75.5		30-130				
Surrogate: 2-Fluorophenol	*4.63*		mg/Kg wet	6.460		71.6		30-130				
Surrogate: Phenol-d6	*4.91*		mg/Kg wet	6.460		76.0		30-130				
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.230		70.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.34*		mg/Kg wet	3.230		72.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.34*		mg/Kg wet	6.460		98.2		30-130				
Surrogate: p-Terphenyl-d14	*2.56*		mg/Kg wet	3.230		79.4		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B390945 - SW-846 3546											
LCS Dup (B390945-BSD1)				Prepared: 10/30/24 Analyzed: 11/01/24							
2,3,4,6-Tetrachlorophenol	1.18	0.65	mg/Kg wet	1.614		72.8	40-140	8.71	20		
Atrazine	1.22	0.65	mg/Kg wet	1.614		75.5	40-140	6.72	30		
Benzaldehyde	1.02	0.33	mg/Kg wet	1.614		62.9	40-140	1.34	20	V-05	
Biphenyl	1.16	0.65	mg/Kg wet	1.614		72.0	40-140	0.107	20		
Caprolactam	1.23	0.33	mg/Kg wet	1.614		76.5	40-140	6.71	20		
Acenaphthene	1.15	0.16	mg/Kg wet	1.614		71.1	40-140	2.31	30		
Acenaphthylene	1.20	0.16	mg/Kg wet	1.614		74.4	40-140	2.58	30		
Acetophenone	1.09	0.33	mg/Kg wet	1.614		67.2	40-140	1.44	30		
Aniline	1.16	0.33	mg/Kg wet	1.614		71.9	10-140	0.0234	50		† ‡
Anthracene	1.14	0.16	mg/Kg wet	1.614		70.6	40-140	2.19	30		
Benzo(a)anthracene	1.14	0.16	mg/Kg wet	1.614		70.5	40-140	2.89	30		
Benzo(a)pyrene	1.17	0.16	mg/Kg wet	1.614		72.7	40-140	2.85	30		
Benzo(b)fluoranthene	1.13	0.16	mg/Kg wet	1.614		70.1	40-140	4.77	30		
Benzo(g,h,i)perylene	1.32	0.16	mg/Kg wet	1.614		81.7	40-140	0.507	30		
Benzo(k)fluoranthene	1.19	0.16	mg/Kg wet	1.614		73.7	40-140	5.08	30		
Bis(2-chloroethoxy)methane	1.19	0.33	mg/Kg wet	1.614		73.4	40-140	0.873	30		
Bis(2-chloroethyl)ether	1.14	0.33	mg/Kg wet	1.614		70.4	40-140	0.309	30		
2,2'-oxybis(1-Chloropropane)	1.37	0.33	mg/Kg wet	1.614		84.6	40-140	1.32	30		
Bis(2-Ethylhexyl)phthalate	1.19	0.33	mg/Kg wet	1.614		73.4	40-140	4.53	30		
4-Bromophenylphenylether	1.22	0.33	mg/Kg wet	1.614		75.7	40-140	3.31	30		
Butylbenzylphthalate	1.16	0.33	mg/Kg wet	1.614		71.9	40-140	3.24	30		
Carbazole	1.15	0.16	mg/Kg wet	1.614		71.5	40-140	1.89	30		
4-Chloroaniline	1.01	0.64	mg/Kg wet	1.614		62.7	10-140	1.87	30		†
4-Chloro-3-methylphenol	1.15	0.64	mg/Kg wet	1.614		71.2	30-130	5.58	30		
2-Chloronaphthalene	1.02	0.33	mg/Kg wet	1.614		63.2	40-140	2.29	30		
2-Chlorophenol	1.10	0.33	mg/Kg wet	1.614		68.4	30-130	1.29	30		
4-Chlorophenylphenylether	1.19	0.33	mg/Kg wet	1.614		73.7	40-140	5.52	30		
Chrysene	1.12	0.16	mg/Kg wet	1.614		69.4	40-140	1.63	30		
Dibenz(a,h)anthracene	1.30	0.16	mg/Kg wet	1.614		80.5	40-140	0.404	30		
Dibenzofuran	1.18	0.33	mg/Kg wet	1.614		73.1	40-140	3.89	30		
Di-n-butylphthalate	1.15	0.33	mg/Kg wet	1.614		70.9	40-140	1.54	30		
3,3-Dichlorobenzidine	1.18	0.16	mg/Kg wet	1.614		73.3	20-140	0.405	50		† ‡
2,4-Dichlorophenol	1.15	0.33	mg/Kg wet	1.614		71.1	30-130	3.00	30		
Diethylphthalate	1.14	0.33	mg/Kg wet	1.614		70.6	40-140	6.66	30		
2,4-Dimethylphenol	1.09	0.33	mg/Kg wet	1.614		67.8	30-130	2.82	30		
Dimethylphthalate	1.20	0.33	mg/Kg wet	1.614		74.3	40-140	5.42	30		
4,6-Dinitro-2-methylphenol	1.28	0.33	mg/Kg wet	1.614		79.4	30-130	4.37	30		
2,4-Dinitrophenol	1.34	0.64	mg/Kg wet	1.614		82.8	30-130	2.04	30		
2,4-Dinitrotoluene	1.36	0.33	mg/Kg wet	1.614		84.2	40-140	5.12	30		
2,6-Dinitrotoluene	1.32	0.33	mg/Kg wet	1.614		82.1	40-140	4.84	30		
Di-n-octylphthalate	1.11	0.33	mg/Kg wet	1.614		69.0	40-140	7.57	30		
Fluoranthene	1.15	0.16	mg/Kg wet	1.614		70.9	40-140	1.60	30		
Fluorene	1.15	0.16	mg/Kg wet	1.614		71.2	40-140	3.83	30		
Hexachlorobenzene	1.30	0.33	mg/Kg wet	1.614		80.6	40-140	0.366	30		
Hexachlorobutadiene	1.06	0.33	mg/Kg wet	1.614		65.8	40-140	1.75	30		
Hexachlorocyclopentadiene	1.19	0.33	mg/Kg wet	1.614		73.8	40-140	0.438	30		
Hexachloroethane	1.03	0.33	mg/Kg wet	1.614		63.6	40-140	0.753	30		
Indeno(1,2,3-cd)pyrene	1.36	0.16	mg/Kg wet	1.614		84.4	40-140	0.316	30		
Isophorone	1.19	0.33	mg/Kg wet	1.614		73.5	40-140	0.0867	30		
1-Methylnaphthalene	1.11	0.16	mg/Kg wet	1.614		68.8	40-140	2.13	30		
2-Methylnaphthalene	1.08	0.16	mg/Kg wet	1.614		67.1	40-140	1.45	30		
2-Methylphenol	1.15	0.33	mg/Kg wet	1.614		71.2	30-130	1.37	30		

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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 B390945 - SW-846 3546												
LCS Dup (B390945-BSD1)				Prepared: 10/30/24 Analyzed: 11/01/24								
3/4-Methylphenol	1.25	0.33	mg/Kg wet	1.614		77.2		30-130	0.626	30		
Naphthalene	1.08	0.16	mg/Kg wet	1.614		66.6		40-140	0.479	30		
2-Nitroaniline	1.47	0.33	mg/Kg wet	1.614		90.9		40-140	4.57	30		
3-Nitroaniline	1.16	0.33	mg/Kg wet	1.614		71.7		30-140	5.25	30		†
4-Nitroaniline	1.27	0.33	mg/Kg wet	1.614		78.9		40-140	5.07	30		
Nitrobenzene	1.11	0.33	mg/Kg wet	1.614		68.6		40-140	1.41	30		
2-Nitrophenol	1.17	0.33	mg/Kg wet	1.614		72.6		30-130	0.170	30		
4-Nitrophenol	1.11	0.64	mg/Kg wet	1.614		69.0		30-130	6.73	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.20	0.33	mg/Kg wet	1.614		74.1		40-140	2.09	30		
N-Nitrosodi-n-propylamine	1.15	0.33	mg/Kg wet	1.614		71.5		40-140	0.451	30		
Pentachlorophenol	1.14	0.33	mg/Kg wet	1.614		70.9		30-130	3.41	30		
Phenanthrene	1.14	0.16	mg/Kg wet	1.614		70.5		40-140	1.22	30		
Phenol	1.19	0.33	mg/Kg wet	1.614		73.9		30-130	1.03	30		
Pyrene	1.13	0.16	mg/Kg wet	1.614		69.9		40-140	3.74	30		
Pyridine	0.409	0.33	mg/Kg wet	1.614		**25.4**	*	30-140	4.81	30	L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.05	0.33	mg/Kg wet	1.614		65.3		40-140	0.213	30		
2,4,5-Trichlorophenol	1.16	0.33	mg/Kg wet	1.614		72.1		30-130	6.53	30		
2,4,6-Trichlorophenol	1.16	0.33	mg/Kg wet	1.614		71.8		30-130	5.00	30		
Surrogate: 2-Fluorophenol	*4.63*		mg/Kg wet	6.458		71.7		30-130				
Surrogate: Phenol-d6	*4.93*		mg/Kg wet	6.458		76.3		30-130				
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.229		71.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.229		72.1		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.90*		mg/Kg wet	6.458		91.4		30-130				
Surrogate: p-Terphenyl-d14	*2.44*		mg/Kg wet	3.229		75.5		30-130				

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B390901 - SW-846 3546												
Blank (B390901-BLK1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	ND	0.050	mg/Kg wet									R-05
Surrogate: 1,4-Dioxane-d8	*0.259*		mg/Kg wet	0.4978		52.1		15-110				
LCS (B390901-BS1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.507	0.050	mg/Kg wet	0.4963		102		40-140				R-05
Surrogate: 1,4-Dioxane-d8	*0.298*		mg/Kg wet	0.4963		60.0		15-110				
LCS Dup (B390901-BSD1)				Prepared: 10/30/24 Analyzed: 11/11/24								
1,4-Dioxane	0.830	0.050	mg/Kg wet	0.4965		**167**	*	40-140	**48.3**	*	30	L-07A
Surrogate: 1,4-Dioxane-d8	*0.210*		mg/Kg wet	0.4965		42.4		15-110				
Batch B392039 - SW-846 3546												
Blank (B392039-BLK1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	ND	0.048	mg/Kg wet									
Surrogate: 1,4-Dioxane-d8	*0.174*		mg/Kg wet	0.4794		36.3		15-110				
LCS (B392039-BS1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	0.522	0.048	mg/Kg wet	0.4789		109		40-140				
Surrogate: 1,4-Dioxane-d8	*0.177*		mg/Kg wet	0.4789		37.0		15-110				
LCS Dup (B392039-BSD1)				Prepared: 11/12/24 Analyzed: 11/13/24								
1,4-Dioxane	0.532	0.048	mg/Kg wet	0.4794		111		40-140	1.91		30	
Surrogate: 1,4-Dioxane-d8	*0.165*		mg/Kg wet	0.4794		34.5		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 B393181 - EPA 1633										
Blank (B393181-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.19	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.19	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.19	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.19	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.19	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.19	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.19	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.19	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.19	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.19	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.8	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.8	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*6.31*		µg/kg wet	7.756		81.3	8-130			

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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 B393181 - EPA 1633										
Blank (B393181-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Surrogate: 13C5-PFPeA	*3.53*		µg/kg wet	3.878		90.9	35-130			
Surrogate: 13C5-PFHxA	*1.70*		µg/kg wet	1.939		87.6	40-130			
Surrogate: 13C4-PFHpA	*1.63*		µg/kg wet	1.939		84.2	40-130			
Surrogate: 13C8-PFOA	*1.74*		µg/kg wet	1.939		89.9	40-130			
Surrogate: 13C9-PFNA	*0.851*		µg/kg wet	0.9696		87.8	40-130			
Surrogate: 13C6-PFDA	*0.833*		µg/kg wet	0.9696		85.9	40-130			
Surrogate: 13C7-PFUnA	*0.818*		µg/kg wet	0.9696		84.3	40-130			
Surrogate: 13C2-PFDoA	*0.881*		µg/kg wet	0.9696		90.9	40-130			
Surrogate: 13C2-PFTeDA	*0.887*		µg/kg wet	0.9696		91.5	20-130			
Surrogate: 13C3-PFBS	*1.71*		µg/kg wet	1.939		88.3	40-135			
Surrogate: 13C3-PFHxS	*1.74*		µg/kg wet	1.939		89.5	40-130			
Surrogate: 13C8-PFOS	*1.63*		µg/kg wet	1.939		84.1	40-130			
Surrogate: 13C2-4:2FTS	*4.25*		µg/kg wet	3.878		110	40-165			
Surrogate: 13C2-6:2FTS	*3.43*		µg/kg wet	3.878		88.5	40-215			
Surrogate: 13C2-8:2FTS	*3.72*		µg/kg wet	3.878		96.0	40-275			
Surrogate: 13C8-PFOSA	*1.48*		µg/kg wet	1.939		76.3	40-130			
Surrogate: D3-NMeFOSA	*1.27*		µg/kg wet	1.939		65.3	10-130			
Surrogate: D5-NEtFOSA	*1.30*		µg/kg wet	1.939		67.2	10-130			
Surrogate: D3-NMeFOSAA	*2.57*		µg/kg wet	3.878		66.2	40-135			
Surrogate: D5-NEtFOSAA	*2.62*		µg/kg wet	3.878		67.5	40-150			
Surrogate: D7-NMeFOSE	*16.8*		µg/kg wet	19.39		86.8	20-130			
Surrogate: D9-NEtFOSE	*17.9*		µg/kg wet	19.39		92.1	15-130			
Surrogate: 13C3-HFPO-DA	*7.05*		µg/kg wet	7.756		90.9	40-130			
LCS (B393181-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	7.52	0.77	µg/kg wet	7.710		97.6	70-140			
Perfluoropentanoic acid (PFPeA)	3.89	0.39	µg/kg wet	3.855		101	60-150			
Perfluorohexanoic acid (PFHxA)	1.99	0.19	µg/kg wet	1.928		103	65-140			
Perfluoroheptanoic acid (PFHpA)	1.92	0.19	µg/kg wet	1.928		99.7	65-145			
Perfluorooctanoic acid (PFOA)	1.97	0.19	µg/kg wet	1.928		102	70-150			
Perfluorononanoic acid (PFNA)	1.90	0.19	µg/kg wet	1.928		98.5	70-155			
Perfluorodecanoic acid (PFDA)	2.07	0.19	µg/kg wet	1.928		107	70-155			
Perfluoroundecanoic acid (PFUnA)	2.00	0.19	µg/kg wet	1.928		104	70-155			
Perfluorododecanoic acid (PFDoA)	2.03	0.19	µg/kg wet	1.928		105	70-150			
Perfluorotridecanoic acid (PFTrDA)	1.98	0.19	µg/kg wet	1.928		103	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.09	0.19	µg/kg wet	1.928		108	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.65	0.19	µg/kg wet	1.712		96.2	65-145			
Perfluoropentanesulfonic acid (PFPeS)	1.74	0.19	µg/kg wet	1.812		96.0	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.71	0.19	µg/kg wet	1.758		97.4	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.76	0.19	µg/kg wet	1.835		95.7	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.61	0.19	µg/kg wet	1.789		90.2	65-160			
Perfluorononanesulfonic acid (PFNS)	1.78	0.19	µg/kg wet	1.850		96.4	55-140			
Perfluorodecanesulfonic acid (PFDS)	1.79	0.19	µg/kg wet	1.858		96.2	40-155			
Perfluorododecanesulfonic acid (PFDoS)	1.79	0.19	µg/kg wet	1.866		96.2	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.29	0.77	µg/kg wet	7.224		115	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.78	0.77	µg/kg wet	7.332		106	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.66	0.77	µg/kg wet	7.402		103	70-150			
Perfluorooctanesulfonamide (PFOSA)	1.89	0.19	µg/kg wet	1.928		98.2	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.10	0.19	µg/kg wet	1.928		109	70-155			

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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 B393181 - EPA 1633										
LCS (B393181-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.12	0.19	µg/kg wet	1.928		110	70-140			
N-MeFOSAA (NMeFOSAA)	1.98	0.19	µg/kg wet	1.928		103	65-155			
N-EtFOSAA (NEtFOSAA)	1.89	0.19	µg/kg wet	1.928		98.0	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.9	1.9	µg/kg wet	19.28		103	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.0	1.9	µg/kg wet	19.28		98.4	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.89	0.77	µg/kg wet	7.710		102	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.59	0.77	µg/kg wet	7.286		104	70-160			
9Cl-PF3ONS (F53B Minor)	6.96	0.77	µg/kg wet	7.194		96.8	70-150			
11Cl-PF3OUdS (F53B Major)	7.18	0.77	µg/kg wet	7.201		99.6	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.01	0.96	µg/kg wet	9.638		52.0	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	45.7	4.8	µg/kg wet	48.19		94.9	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	45.8	4.8	µg/kg wet	48.19		95.1	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.67	0.39	µg/kg wet	3.439		107	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.65	0.39	µg/kg wet	3.855		94.8	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.79	0.39	µg/kg wet	3.855		98.4	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.14	0.39	µg/kg wet	3.855		107	60-155			
Surrogate: 13C4-PFBA	*6.44*		µg/kg wet	7.710		83.6	8-130			
Surrogate: 13C5-PFPeA	*3.56*		µg/kg wet	3.855		92.4	35-130			
Surrogate: 13C5-PFHxA	*1.71*		µg/kg wet	1.928		88.7	40-130			
Surrogate: 13C4-PFHpA	*1.65*		µg/kg wet	1.928		85.6	40-130			
Surrogate: 13C8-PFOA	*1.91*		µg/kg wet	1.928		98.9	40-130			
Surrogate: 13C9-PFNA	*0.916*		µg/kg wet	0.9638		95.1	40-130			
Surrogate: 13C6-PFDA	*0.847*		µg/kg wet	0.9638		87.9	40-130			
Surrogate: 13C7-PFUnA	*0.906*		µg/kg wet	0.9638		94.0	40-130			
Surrogate: 13C2-PFDoA	*0.923*		µg/kg wet	0.9638		95.8	40-130			
Surrogate: 13C2-PFTeDA	*0.906*		µg/kg wet	0.9638		94.0	20-130			
Surrogate: 13C3-PFBS	*1.76*		µg/kg wet	1.928		91.3	40-135			
Surrogate: 13C3-PFHxS	*1.74*		µg/kg wet	1.928		90.2	40-130			
Surrogate: 13C8-PFOS	*1.83*		µg/kg wet	1.928		94.7	40-130			
Surrogate: 13C2-4:2FTS	*3.66*		µg/kg wet	3.855		94.8	40-165			
Surrogate: 13C2-6:2FTS	*3.29*		µg/kg wet	3.855		85.2	40-215			
Surrogate: 13C2-8:2FTS	*3.41*		µg/kg wet	3.855		88.5	40-275			
Surrogate: 13C8-PFOSA	*1.48*		µg/kg wet	1.928		76.9	40-130			
Surrogate: D3-NMeFOSA	*1.26*		µg/kg wet	1.928		65.6	10-130			
Surrogate: D5-NEtFOSA	*1.30*		µg/kg wet	1.928		67.4	10-130			
Surrogate: D3-NMeFOSAA	*2.95*		µg/kg wet	3.855		76.4	40-135			
Surrogate: D5-NEtFOSAA	*3.16*		µg/kg wet	3.855		82.1	40-150			
Surrogate: D7-NMeFOSE	*15.9*		µg/kg wet	19.28		82.7	20-130			
Surrogate: D9-NEtFOSE	*17.1*		µg/kg wet	19.28		88.5	15-130			
Surrogate: 13C3-HFPO-DA	*7.03*		µg/kg wet	7.710		91.1	40-130			
MRL Check (B393181-MRL1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	0.930	0.80	µg/kg wet	0.7998		116	70-140			
Perfluoropentanoic acid (PFPeA)	0.453	0.40	µg/kg wet	0.3999		113	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 B393181 - EPA 1633										
MRL Check (B393181-MRL1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorohexanoic acid (PFHxA)	0.239	0.20	µg/kg wet	0.2000		120	65-140			
Perfluoroheptanoic acid (PFHpA)	0.223	0.20	µg/kg wet	0.2000		112	65-145			
Perfluorooctanoic acid (PFOA)	0.236	0.20	µg/kg wet	0.2000		118	70-150			
Perfluorononanoic acid (PFNA)	0.237	0.20	µg/kg wet	0.2000		119	70-155			
Perfluorodecanoic acid (PFDA)	0.225	0.20	µg/kg wet	0.2000		112	70-155			
Perfluoroundecanoic acid (PFUnA)	0.248	0.20	µg/kg wet	0.2000		124	70-155			
Perfluorododecanoic acid (PFDoA)	0.233	0.20	µg/kg wet	0.2000		117	70-150			
Perfluorotridecanoic acid (PFTrDA)	0.227	0.20	µg/kg wet	0.2000		114	65-150			
Perfluorotetradecanoic acid (PFTeDA)	0.229	0.20	µg/kg wet	0.2000		115	65-150			
Perfluorobutanesulfonic acid (PFBS)	0.190	0.20	µg/kg wet	0.1776		107	65-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.194	0.20	µg/kg wet	0.1880		103	55-160			J
Perfluorohexanesulfonic acid (PFHxS)	0.202	0.20	µg/kg wet	0.1824		111	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	0.259	0.20	µg/kg wet	0.1904		136	65-155			
Perfluorooctanesulfonic acid (PFOS)	0.205	0.20	µg/kg wet	0.1856		111	65-160			
Perfluorononanesulfonic acid (PFNS)	0.202	0.20	µg/kg wet	0.1920		105	55-140			
Perfluorodecanesulfonic acid (PFDS)	0.233	0.20	µg/kg wet	0.1928		121	40-155			
Perfluorododecanesulfonic acid (PFDoS)	0.225	0.20	µg/kg wet	0.1936		116	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.873	0.80	µg/kg wet	0.7495		117	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.896	0.80	µg/kg wet	0.7606		118	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.05	0.80	µg/kg wet	0.7678		137	70-150			
Perfluorooctanesulfonamide (PFOSA)	0.216	0.20	µg/kg wet	0.2000		108	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.230	0.20	µg/kg wet	0.2000		115	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.235	0.20	µg/kg wet	0.2000		117	70-140			
N-MeFOSAA (NMeFOSAA)	0.262	0.20	µg/kg wet	0.2000		131	65-155			
N-EtFOSAA (NEtFOSAA)	0.209	0.20	µg/kg wet	0.2000		105	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	2.23	2.0	µg/kg wet	2.000		112	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	2.19	2.0	µg/kg wet	2.000		109	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.936	0.80	µg/kg wet	0.7998		117	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.935	0.80	µg/kg wet	0.7558		124	70-160			
9Cl-PF3ONS (F53B Minor)	0.857	0.80	µg/kg wet	0.7463		115	70-150			
11Cl-PF3OUdS (F53B Major)	0.868	0.80	µg/kg wet	0.7542		115	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	0.558	1.0	µg/kg wet	0.9998		55.8	45-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	5.13	5.0	µg/kg wet	4.999		103	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	5.18	5.0	µg/kg wet	4.999		104	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.430	0.40	µg/kg wet	0.3567		121	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.460	0.40	µg/kg wet	0.3999		115	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.478	0.40	µg/kg wet	0.3999		119	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.479	0.40	µg/kg wet	0.3999		120	60-155			
Surrogate: 13C4-PFBA	*4.45*		µg/kg wet	7.998		55.7	8-130			
Surrogate: 13C5-PFPeA	*2.57*		µg/kg wet	3.999		64.2	35-130			
Surrogate: 13C5-PFHxA	*1.23*		µg/kg wet	2.000		61.5	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 B393181 - EPA 1633										
MRL Check (B393181-MRL1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Surrogate: 13C4-PFHpA	*1.21*		µg/kg wet	2.000		60.6	40-130			
Surrogate: 13C8-PFOA	*1.28*		µg/kg wet	2.000		63.8	40-130			
Surrogate: 13C9-PFNA	*0.618*		µg/kg wet	0.9998		61.9	40-130			
Surrogate: 13C6-PFDA	*0.650*		µg/kg wet	0.9998		65.0	40-130			
Surrogate: 13C7-PFUnA	*0.659*		µg/kg wet	0.9998		65.9	40-130			
Surrogate: 13C2-PFDoA	*0.697*		µg/kg wet	0.9998		69.7	40-130			
Surrogate: 13C2-PFTeDA	*0.693*		µg/kg wet	0.9998		69.3	20-130			
Surrogate: 13C3-PFBS	*1.29*		µg/kg wet	2.000		64.3	40-135			
Surrogate: 13C3-PFHxS	*1.32*		µg/kg wet	2.000		65.9	40-130			
Surrogate: 13C8-PFOS	*1.25*		µg/kg wet	2.000		62.7	40-130			
Surrogate: 13C2-4:2FTS	*3.11*		µg/kg wet	3.999		77.7	40-165			
Surrogate: 13C2-6:2FTS	*2.65*		µg/kg wet	3.999		66.2	40-215			
Surrogate: 13C2-8:2FTS	*2.72*		µg/kg wet	3.999		67.9	40-275			
Surrogate: 13C8-PFOSA	*1.07*		µg/kg wet	2.000		53.4	40-130			
Surrogate: D3-NMeFOSA	*1.01*		µg/kg wet	2.000		50.6	10-130			
Surrogate: D5-NEtFOSA	*0.985*		µg/kg wet	2.000		49.3	10-130			
Surrogate: D3-NMeFOSAA	*2.13*		µg/kg wet	3.999		53.3	40-135			
Surrogate: D5-NEtFOSAA	*2.25*		µg/kg wet	3.999		56.2	40-150			
Surrogate: D7-NMeFOSE	*12.0*		µg/kg wet	20.00		60.1	20-130			
Surrogate: D9-NEtFOSE	*13.1*		µg/kg wet	20.00		65.7	15-130			
Surrogate: 13C3-HFPO-DA	*5.03*		µg/kg wet	7.998		62.9	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.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
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 Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	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
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY

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SW-846 8260D in Water	
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
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 Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA

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SW-846 8270E in Soil	
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA

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Analyte	Certifications
SW-846 8270E in Soil	
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)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(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	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(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	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-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	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
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA

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Analyte	Certifications
SW-846 8270E in Water	
4-Chloro-3-methylphenol	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-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-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
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	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-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-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
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA

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SW-846 8270E in Water	
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	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
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-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
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC

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SW-846 8270E in Water	
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	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
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC

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

Pace Analytical

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East Longmeadow, MA 01028

24J3930

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address: 201 Fuller Rd, Suite 201, Albany, NY 12203	
Consultant Phone: 518-250-7336	
Callout Project Name: Former Commander Oil Terminal - Off-Site	
Project Location: Nassau	
Callout Number: 151674	
Site/Spill Number: C130244A	
Project Manager: Steerem Imbagyinga	
Pace Analytical Quote Name/Number: C100913	
Invoice Recipient: NYS DEC	
Sampled By: Maeve Tucker	

Requested Turnaround Time
DEC Standard 30-calendar day
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefano.Bagnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/Time	~~Ending~~ Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM (~~8082 PCBs~~)	8081 Pesticide / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 1633 / PFAS 537 ID
1	DPT-4 (10-15) 102524	10/25	1045	✓		S	U	X	X				
2	MW-4 (26-29) 102524	↓	1335	✓		S	U	X		X			X
3	MW-4 (11.5-12) 102524	↓	1315	✓		S	U	X					
4	MW-4 (5-6.5) 102524	↓	1300	✓		S	U						X
5	DPT-4 (20-22) GW 102524	↓	1510		✓	GW	U	X	X				
6	DPT-4 (10-12) GW 102524	10/25	1530		✓	GW	U	X	X				
7	Trip Blank 102524							X					

																# of Containers
15	5	1			2											
*	I	I			I											[2] Preservation Code
V	A	A			P											[3] Container Code

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
* Soil 8260 Preserved with M & B. GW 8260 Preserved with HCl

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/25/24 1715
Received by: (signature) AEB Pace LI	Date/Time: 10/25/24 1719
Relinquished by: (signature) AEB Pace LI	Date/Time: 10/25/24 1800
Received by: (signature) MSMA(AN)	Date/Time: 10/25 1930
Relinquished by: (signature) MSMA(AN)	Date/Time: 10/25 2250
Received by: (signature) Anthony Green	Date/Time: OCT 25 2024 2250

Program & Regulatory Information
☐ AWQ STDS ☑ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☑ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21E ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

10/26/24 0100 10/26/24 0415

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

Log In Back-Sheet

Client Arcadis

Project Former Commander

MCP/RCP Required na

Deliverable Package Requirement na

Location NY

PWSID# (When Applicable) na

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 10/26/24 740

Back-Sheet By / Date / Time RL 10/28/24 1456

Temperature Method gun #6

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

Temp < 6° C Actual Temperature 1.2, 0.2, 2.2

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

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

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

COC Included: (Check all included)

Client	☐	Analysis	☐	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

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

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December 6, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Nassau, NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24K0186

Enclosed are results of analyses for samples as received by the laboratory on October 31, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 12/6/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0186

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-4(5-6.5)102824	24K0186-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 9014	
EB 102824	24K0186-02	Equipment Blank Water		Draft Method 1633	
EB 102924	24K0186-03	Equipment Blank Water		Draft Method 1633	
DUP(SS) 102924	24K0186-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
DPT-2(SS) 102924	24K0186-05	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 12/6/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0186

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DPT-1(SS) 102924	24K0186-06	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
MW-1(SS) 102924	24K0186-07	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
Trip Blank 102924	24K0186-08	Trip Blank Water		SW-846 8260D	
SDMT-3 (0.5-1) 102924	24K0186-09	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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ATTN: Steeven Imbaquingo

REPORT DATE: 12/6/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0186

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SDMT-3 (1-2) 102924	24K0186-10	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SW-1-102924	24K0186-11	Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SW-2-102924	24K0186-12	Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SDMT-1 (0.5-1) 102924	24K0186-13	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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ATTN: Steeven Imbaquingo

REPORT DATE: 12/6/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0186

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SDMT-1 (1-2) 102924	24K0186-14	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SDMT-2 (0.5-1) 102924	24K0186-15	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SDMT-2 (1-2) 102924	24K0186-16	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
WC-102924	24K0186-17	Soil		SM 2540G	
				SW-846 1311	MA M-MA-086/CT PH-0574/NY11148
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	

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Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 12/6/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0186

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

PROJECT LOCATION: Nassau, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-3-102924	24K0186-18	Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
DUP(SW) 102924	24K0186-19	Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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CASE NARRATIVE SUMMARY

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

The TCLP extrations for methods 8081, 8260 and 8270 were activated by the client outside the holding time.

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Draft Method 1633

Qualifications:

PF-18

Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
24K0186-18RE1[SW-3-102924]

13C2-8:2FTS
24K0186-18RE1[SW-3-102924]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
24K0186-18RE1[SW-3-102924]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS
24K0186-18RE1[SW-3-102924]

D3-NMeFOSAA
24K0186-18RE1[SW-3-102924]

N-MeFOSAA (NMeFOSAA)
24K0186-18RE1[SW-3-102924]

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C8-PFOSA
B393179-BS1

D3-NMeFOSAA
B393179-BS1

N-MeFOSAA (NMeFOSAA)
B393179-BS1

Perfluorooctanesulfonamide (PFOSA)
B393179-BS1

Z-01

Non-extracted internal standard compound recovery <50%. Re-extracted sample exhibited similar results. Possible high bias present on associated extracted internal standard recoveries.

Analyte & Samples(s) Qualified:

13C3-PFBA
24K0186-18RE1[SW-3-102924]

13C4-PFBA
24K0186-18RE1[SW-3-102924]

Z-01a

Sample was frozen to extend hold time to 90 days.

Analyte & Samples(s) Qualified:

24K0186-18RE1[SW-3-102924]

SM 2540G

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

% Solids
24K0186-01[MW-4(5-6.5)102824], 24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-10[SDMT-3 (1-2) 102924], 24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], 24K0186-17[WC-102924]

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SW-846 6010D

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Copper
B391581-BS1, B391581-BSD1

Manganese
B391581-BS1, B391581-BSD1, B391603-BSD1

Selenium
B392457-BS1

Silver
B392457-BSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony
24K0186-07[MW-1(SS) 102924], B391581-MS1, B391581-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum
24K0186-07[MW-1(SS) 102924], B391581-MS1, B391581-MSD1

Calcium
24K0186-07[MW-1(SS) 102924], 24K0186-12[SW-2-102924], B391581-MS3, B391581-MSD3, B391602-MS1

Iron
24K0186-07[MW-1(SS) 102924], B391581-MS1, B391581-MSD1

Magnesium
24K0186-07[MW-1(SS) 102924], 24K0186-12[SW-2-102924], B391581-MS3, B391581-MSD3, B391602-MS1

Manganese
24K0186-07[MW-1(SS) 102924], B391581-MS1, B391581-MSD1

Potassium
24K0186-07[MW-1(SS) 102924], 24K0186-12[SW-2-102924], B391581-MS2, B391581-MSD2, B391602-MS1

Sodium
24K0186-12[SW-2-102924], B391602-MS5, B391602-MSD5

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Barium
24K0186-07[MW-1(SS) 102924], B391581-MS1

Copper
24K0186-07[MW-1(SS) 102924], B391581-MS1, B391581-MSD1

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

24K0186-01[MW-4(5-6.5)102824], 24K0186-01RE1[MW-4(5-6.5)102824], 24K0186-04[DUP(SS) 102924], 24K0186-04RE1[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-05RE1[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-06RE1[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-07RE1[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-09RE1[SDMT-3 (0.5-1) 102924], 24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-13RE1[SDMT-1 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924], 24K0186-14RE1[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-15RE1[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], 24K0186-16RE1[SDMT-2 (1-2) 102924]

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P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

alpha-Chlordane [2C]
24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924]

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Endrin Aldehyde [2C]
24K0186-07RE1[MW-1(SS) 102924], B391935-MS1, B391935-MSD1

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:

Methoxychlor
B392432-BLK1, B392432-BS1, B392432-BSD1

SW-846 8260D

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Acetone
B391458-BSD1, B391462-BSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

1,2,4-Trichlorobenzene
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Bromomethane
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Carbon Disulfide
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Chloroethane
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Chloromethane
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Cyclohexane
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Dichlorodifluoromethane (Freon 12)
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Ethanol
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Methyl Cyclohexane
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Naphthalene
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

n-Butylbenzene
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

trans-1,2-Dichloroethylene
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

Vinyl Chloride
24K0186-07[MW-1(SS) 102924], B391435-MS1, B391435-MSD1

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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:

Acetone
24K0186-12[SW-2-102924], B391462-MS1, B391462-MSD1

Ethanol
24K0186-12[SW-2-102924], B391462-MS1, B391462-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:

1,1-Dichloroethylene
B391435-MSD1

Methyl Acetate
B391462-MS1

Tetrachloroethylene
B391462-MSD1

Trichlorofluoromethane (Freon 11)
B391435-MSD1

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:

Acetone
24K0186-08[Trip Blank 102924], 24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391458-BLK1, B391458-BS1, B391458-BSD1, B391462-BLK1, B391462-BS1, B391462-BSD1, B391462-MS1, B391462-MSD1, S113482-CCV1, S113483-CCV1

Ethanol
24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-10[SDMT-3 (1-2) 102924], B391435-BLK1, B391435-BS2, B391435-BSD2, B391435-MS1, B391435-MSD1, S 113406-CCV2

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:

Benzene
24K0186-14[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], B391458-BS1, B391458-BSD1, S113483-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:

Benzene
B391462-BS1, B391462-BSD1, B391462-MS1, B391462-MSD1, S113482-CCV1

Carbon Tetrachloride
B391458-BS1, B391458-BSD1, B391462-BS1, B391462-BSD1, B391462-MS1, B391462-MSD1, S113482-CCV1, S113483-CCV1

Dichlorodifluoromethane (Freon 12)
B391458-BS1, B391458-BSD1, B391462-BS1, B391462-BSD1, B391462-MS1, B391462-MSD1, S113482-CCV1, S113483-CCV1

SW-846 8270E

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Caprolactam
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1

Hexachloroethane
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1

Pyridine
24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-10[SDMT-3 (1-2) 102924], 24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], B391852-BLK1, B391852-BS1, B391852-BSD1, B391852-MS1, B391852-MSD1

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L-07A

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B391397-BS1

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:

2,3,4,6-Tetrachlorophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

2,4-Dinitrophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

3,3-Dichlorobenzidine
B391852-MS1, B391852-MSD1

4-Nitrophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

Caprolactam
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

Hexachlorocyclopentadiene
B391852-MS1, B391852-MSD1

Hexachloroethane
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

Pentachlorophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

Pyridine
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1, B391852-MS1, B391852-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
B391397-MS1

4-Chloroaniline
B391852-MS1

Hexachlorobutadiene
B391397-MSD1

Phenol
B391397-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4,5-Trichlorophenol
B391397-MS1

2,4,6-Trichlorophenol
B391397-MS1

2-Nitrophenol
B391397-MS1

R-05

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

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
B391397-BS1, B391397-BSD1

2,4-Dinitrophenol
B391397-BSD1

Nitrobenzene
B392435-BS1, B392435-BSD1

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R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

2,4,5-Trichlorophenol
B391397-MSD1

2,4,6-Trichlorophenol
B391397-MSD1

2,4-Dichlorophenol
B391397-MS1, B391397-MSD1

2-Nitrophenol
B391397-MSD1

3,3-Dichlorobenzidine
B391852-MS1, B391852-MSD1

4-Nitrophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

Benzo(a)anthracene
B391852-MS1, B391852-MSD1

Benzo(a)pyrene
B391852-MS1, B391852-MSD1

Benzo(b)fluoranthene
B391852-MS1, B391852-MSD1

Benzo(g,h,i)perylene
B391852-MS1, B391852-MSD1

Chrysene
B391852-MS1, B391852-MSD1

Fluoranthene
B391852-MS1, B391852-MSD1

Indeno(1,2,3-cd)pyrene
B391852-MS1, B391852-MSD1

Pentachlorophenol
24K0186-12[SW-2-102924], B391397-MS1, B391397-MSD1

Phenanthrene
B391852-MS1, B391852-MSD1

Pyrene
B391852-MS1, B391852-MSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924]

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
B391397-BSD1

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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
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, S113601-CCV1, S113934-CCV1

Dibenz(a,h)anthracene
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, S113601-CCV1, S113934-CCV1

Di-n-octylphthalate
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, S113601-CCV1, S113934-CCV1

Indeno(1,2,3-cd)pyrene
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, S113601-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
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, S113601-CCV1, S113934-CCV1

4-Nitrophenol
24K0186-19[DUP(SW) 102924], S113934-CCV1

Aniline
24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, S113601-CCV1, S113934-CCV1

Benzaldehyde
24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-10[SDMT-3 (1-2) 102924], 24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], B391852-BLK1, B391852-BS1, B391852-BSD1, B391852-MS1, B391852-MSD1, S 113672-CCV2, S113807-CCV2

Pentachlorophenol
24K0186-17[WC-102924], B392435-BLK1, B392435-BS1, B392435-BSD1, S114139-CCV1, S114300-CCV1

Pyridine
24K0186-19[DUP(SW) 102924], 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
24K0186-19[DUP(SW) 102924], 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
24K0186-04[DUP(SS) 102924], 24K0186-05[DPT-2(SS) 102924], 24K0186-06[DPT-1(SS) 102924], 24K0186-07[MW-1(SS) 102924], 24K0186-09[SDMT-3 (0.5-1) 102924], 24K0186-10[SDMT-3 (1-2) 102924], 24K0186-11[SW-1-102924], 24K0186-12[SW-2-102924], 24K0186-13[SDMT-1 (0.5-1) 102924], 24K0186-14[SDMT-1 (1-2) 102924], 24K0186-15[SDMT-2 (0.5-1) 102924], 24K0186-16[SDMT-2 (1-2) 102924], 24K0186-17[WC-102924], 24K0186-18[SW-3-102924], 24K0186-19[DUP(SW) 102924], B391397-BLK1, B391397-BS1, B391397-BSD1, B391397-MS1, B391397-MSD1, B391852-BLK1, B391852-BS1, B391852-BSD1, B391852-MS1, B391852-MSD1, B392435-BLK1, B392435-BS1, B392435-BSD1, S111153-ICV1, S113334-ICV1, S113601-CCV1, S113672-CCV1, S113807-CCV1, S113934-CCV1, S114139-CCV1, S114300-CCV1, S114725-ICV1

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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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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824 | Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.11	0.050	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
gamma-Chlordane [1]	ND	0.11	0.047	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Aldrin [1]	ND	0.11	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
alpha-BHC [1]	ND	0.11	0.051	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
beta-BHC [1]	ND	0.11	0.057	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
delta-BHC [1]	ND	0.11	0.057	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
gamma-BHC (Lindane) [1]	ND	0.043	0.015	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
4,4'-DDD [2]	ND	0.086	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
4,4'-DDE [1]	ND	0.086	0.0095	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
4,4'-DDT [2]	ND	0.086	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Dieldrin [1]	ND	0.086	0.010	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endosulfan I [1]	ND	0.11	0.052	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endosulfan II [1]	ND	0.17	0.046	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endosulfan sulfate [1]	ND	0.17	0.042	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endrin [1]	ND	0.17	0.055	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Endrin aldehyde [1]	ND	0.17	0.043	mg/Kg dry	20		SW-846 8081B	11/11/24	11/23/24 22:10	TG
Endrin ketone [1]	ND	0.17	0.044	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Heptachlor [1]	ND	0.11	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Heptachlor epoxide [1]	ND	0.11	0.013	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Methoxychlor [1]	ND	1.1	0.13	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG
Toxaphene [1]	ND	2.2	0.90	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 1:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		11/26/24 1:12
Decachlorobiphenyl [1]	93.3	30-150		11/23/24 22:10
Decachlorobiphenyl [2]	95.3	30-150		11/26/24 1:12
Decachlorobiphenyl [2]	94.3	30-150		11/23/24 22:10
Tetrachloro-m-xylene [1]	72.7	30-150		11/23/24 22:10
Tetrachloro-m-xylene [1]	80.0	30-150		11/26/24 1:12
Tetrachloro-m-xylene [2]	106	30-150		11/23/24 22:10
Tetrachloro-m-xylene [2]	65.9	30-150		11/26/24 1:12

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824 | Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1221 [1]	ND	0.088	0.041	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1232 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1242 [1]	ND	0.088	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1248 [1]	ND	0.088	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1254 [2]	ND	0.088	0.033	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1260 [1]	ND	0.088	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1262 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW
Aroclor-1268 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 14:56	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		11/17/24 14:56
Decachlorobiphenyl [2]	65.2	30-150		11/17/24 14:56
Tetrachloro-m-xylene [1]	72.7	30-150		11/17/24 14:56
Tetrachloro-m-xylene [2]	75.4	30-150		11/17/24 14:56

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824
Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Arsenic	5.8	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Barium	26	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Beryllium	0.24	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Cadmium	0.22	0.36	0.17	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Calcium	13000	18	9.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Chromium	15	0.72	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Cobalt	4.0	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Copper	57	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Iron	12000	18	8.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Lead	67	0.54	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Magnesium	4500	18	4.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Manganese	190	0.36	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Mercury	0.10	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/21/24	11/22/24 15:23	AAJ
Nickel	7.8	0.72	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Potassium	780	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:41	HNN
Selenium	ND	3.6	0.90	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 18:41	HNN
Sodium	470	180	54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Thallium	ND	1.8	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Vanadium	21	0.72	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN
Zinc	72	0.72	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/9/24 0:39	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-4(5-6.5)102824 | Sampled: 10/28/2024 09:00

Sample ID: 24K0186-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102824 | Sampled: 10/28/2024 14:20

Sample ID: 24K0186-02

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.6	0.83	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.46	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorooctanoic acid (PFOA)	ND	1.6	0.43	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorononanoic acid (PFNA)	ND	1.6	0.67	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	0.40	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.53	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.36	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.36	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.64	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.87	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	0.41	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.74	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.6	1.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.6	3.1	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.6	3.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.57	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.67	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.6	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.6	0.88	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.6	0.96	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.6	1.7	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.2	2.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.2	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102824 | Sampled: 10/28/2024 14:20

Sample ID: 24K0186-02

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.3	0.44	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:27	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	86.5	5-130		11/22/24 15:27
13C5-PFPeA	87.2	40-130		11/22/24 15:27
13C5-PFHxA	86.3	40-130		11/22/24 15:27
13C4-PFHpA	83.0	40-130		11/22/24 15:27
13C8-PFOA	90.3	40-130		11/22/24 15:27
13C9-PFNA	89.1	40-130		11/22/24 15:27
13C6-PFDA	94.5	40-130		11/22/24 15:27
13C7-PFUnA	92.7	30-130		11/22/24 15:27
13C2-PFDoA	84.2	10-130		11/22/24 15:27
13C2-PFTeDA	83.9	10-130		11/22/24 15:27
13C3-PFBS	86.0	40-135		11/22/24 15:27
13C3-PFHxS	82.3	40-130		11/22/24 15:27
13C8-PFOS	82.6	40-130		11/22/24 15:27
13C2-4:2FTS	89.7	40-200		11/22/24 15:27
13C2-6:2FTS	80.7	40-200		11/22/24 15:27
13C2-8:2FTS	90.1	40-300		11/22/24 15:27
13C8-PFOSA	83.9	40-130		11/22/24 15:27
D3-NMeFOSA	78.4	10-130		11/22/24 15:27
D5-NEtFOSA	77.2	10-130		11/22/24 15:27
D3-NMeFOSAA	83.5	40-170		11/22/24 15:27
D5-NEtFOSAA	91.5	25-135		11/22/24 15:27
D7-NMeFOSE	81.6	10-130		11/22/24 15:27
D9-NEtFOSE	80.1	10-130		11/22/24 15:27
13C3-HFPO-DA	94.3	40-130		11/22/24 15:27

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102924 | Sampled: 10/29/2024 07:40

Sample ID: 24K0186-03

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.8	0.85	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.47	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorooctanoic acid (PFOA)	ND	1.7	0.44	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorononanoic acid (PFNA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorodecanoic acid (PFDA)	ND	1.7	0.41	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.51	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.37	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.66	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.90	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.42	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.54	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.77	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.8	1.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.8	3.2	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.8	3.5	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.59	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.8	1.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.8	0.90	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.8	1.0	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.8	1.8	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.5	2.4	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	7.5	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	43	9.6	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.61	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.49	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: EB 102924 | Sampled: 10/29/2024 07:40

Sample ID: 24K0186-03

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.4	0.46	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	11/21/24	11/22/24 15:37	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	88.7	5-130		11/22/24 15:37
13C5-PFPeA	88.7	40-130		11/22/24 15:37
13C5-PFHxA	90.1	40-130		11/22/24 15:37
13C4-PFHpA	86.4	40-130		11/22/24 15:37
13C8-PFOA	91.6	40-130		11/22/24 15:37
13C9-PFNA	87.4	40-130		11/22/24 15:37
13C6-PFDA	87.3	40-130		11/22/24 15:37
13C7-PFUnA	97.1	30-130		11/22/24 15:37
13C2-PFDoA	86.3	10-130		11/22/24 15:37
13C2-PFTeDA	79.6	10-130		11/22/24 15:37
13C3-PFBS	86.5	40-135		11/22/24 15:37
13C3-PFHxS	89.1	40-130		11/22/24 15:37
13C8-PFOS	90.0	40-130		11/22/24 15:37
13C2-4:2FTS	92.7	40-200		11/22/24 15:37
13C2-6:2FTS	83.6	40-200		11/22/24 15:37
13C2-8:2FTS	88.4	40-300		11/22/24 15:37
13C8-PFOSA	87.9	40-130		11/22/24 15:37
D3-NMeFOSA	75.2	10-130		11/22/24 15:37
D5-NEtFOSA	77.4	10-130		11/22/24 15:37
D3-NMeFOSAA	87.4	40-170		11/22/24 15:37
D5-NEtFOSAA	92.7	25-135		11/22/24 15:37
D7-NMeFOSE	87.1	10-130		11/22/24 15:37
D9-NEtFOSE	82.5	10-130		11/22/24 15:37
13C3-HFPO-DA	94.6	40-130		11/22/24 15:37

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00098	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Benzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromochloromethane	ND	0.0020	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromodichloromethane	ND	0.0020	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromoform	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
2-Butanone (MEK)	ND	0.039	0.0083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Butyl Alcohol (TBA)	ND	0.098	0.040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
sec-Butylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00098	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Carbon Disulfide	ND	0.020	0.0099	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Carbon Tetrachloride	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chlorobenzene	ND	0.0020	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chlorodibromomethane	ND	0.00098	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chloroform	ND	0.0039	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Chloromethane	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Cyclohexane	ND	0.0098	0.0040	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0039	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1-Dichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dichloroethane	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1-Dichloroethylene	ND	0.0039	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2-Dichloropropane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Diisopropyl Ether (DIPE)	ND	0.00098	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Ethanol	ND	0.20	0.039	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Ethylbenzene	ND	0.0020	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
2-Hexanone (MBK)	ND	0.020	0.0067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Methyl Cyclohexane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Methylene Chloride	ND	0.020	0.00092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Naphthalene	ND	0.0039	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
n-Propylbenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Styrene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Tetrachloroethylene	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Toluene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Trichloroethylene	ND	0.0020	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Vinyl Chloride	ND	0.0098	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
m+p Xylene	ND	0.0039	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
o-Xylene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 8:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/5/24 8:20
Toluene-d8	98.6	70-130		11/5/24 8:20
4-Bromofluorobenzene	96.6	70-130		11/5/24 8:20

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Atrazine	ND	1.4	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzaldehyde	ND	0.72	0.11	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Biphenyl	ND	1.4	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Caprolactam	ND	0.72	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Acenaphthene	ND	0.36	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Acenaphthylene	ND	0.36	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Acetophenone	ND	0.72	0.075	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Aniline	ND	0.72	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Anthracene	ND	0.36	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(a)anthracene	0.10	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(a)pyrene	0.14	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(b)fluoranthene	0.21	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(g,h,i)perylene	0.11	0.36	0.10	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Benzo(k)fluoranthene	0.080	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Bis(2-chloroethoxy)methane	ND	0.72	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Bis(2-chloroethyl)ether	ND	0.72	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.72	0.45	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Bis(2-Ethylhexyl)phthalate	0.14	0.72	0.085	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Bromophenylphenylether	ND	0.72	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Butylbenzylphthalate	ND	0.72	0.080	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Carbazole	ND	0.36	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Chloroaniline	ND	1.4	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Chloro-3-methylphenol	ND	1.4	0.075	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Chloronaphthalene	ND	0.72	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Chlorophenol	ND	0.72	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Chlorophenylphenylether	ND	0.72	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Chrysene	0.14	0.36	0.064	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Dibenz(a,h)anthracene	ND	0.36	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Dibenzofuran	ND	0.72	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Di-n-butylphthalate	ND	0.72	0.27	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
3,3-Dichlorobenzidine	ND	0.36	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dichlorophenol	ND	0.72	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Diethylphthalate	ND	0.72	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dimethylphenol	ND	0.72	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Dimethylphthalate	ND	0.72	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4,6-Dinitro-2-methylphenol	ND	0.72	0.57	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dinitrophenol	ND	1.4	0.55	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4-Dinitrotoluene	ND	0.72	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,6-Dinitrotoluene	ND	0.72	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Di-n-octylphthalate	ND	0.72	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Fluoranthene	0.22	0.36	0.059	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Fluorene	ND	0.36	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Hexachlorobenzene	ND	0.72	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.72	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Hexachlorocyclopentadiene	ND	0.72	0.47	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Hexachloroethane	ND	0.72	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Indeno(1,2,3-cd)pyrene	ND	0.36	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Isophorone	ND	0.72	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
1-Methylnaphthalene	ND	0.36	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Methylnaphthalene	ND	0.36	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Methylphenol	0.14	0.72	0.096	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
3/4-Methylphenol	ND	0.72	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Naphthalene	ND	0.36	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Nitroaniline	ND	0.72	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
3-Nitroaniline	ND	0.72	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Nitroaniline	ND	0.72	0.080	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Nitrobenzene	ND	0.72	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2-Nitrophenol	ND	0.72	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
4-Nitrophenol	ND	1.4	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.72	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
N-Nitrosodi-n-propylamine	ND	0.72	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Pentachlorophenol	ND	0.72	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Phenanthrene	0.090	0.36	0.064	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Phenol	0.30	0.72	0.091	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Pyrene	0.19	0.36	0.075	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
Pyridine	ND	0.72	0.084	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/11/24 18:50	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.72	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4,5-Trichlorophenol	ND	0.72	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC
2,4,6-Trichlorophenol	ND	0.72	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 18:50	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.3	30-130		11/11/24 18:50
Phenol-d6	58.1	30-130		11/11/24 18:50
Nitrobenzene-d5	59.5	30-130		11/11/24 18:50
2-Fluorobiphenyl	51.7	30-130		11/11/24 18:50
2,4,6-Tribromophenol	61.3	30-130		11/11/24 18:50
p-Terphenyl-d14	55.8	30-130		11/11/24 18:50

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.054	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 18:18	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	38.6	15-110			11/15/24 18:18

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorodecanoic acid (PFDA)	0.12	0.20	0.063	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoroundecanoic acid (PFUnA)	0.11	0.20	0.082	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorododecanoic acid (PFDoA)	0.23	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorotridecanoic acid (PFTrDA)	0.11	0.20	0.063	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorotetradecanoic acid (PFTeDA)	0.13	0.20	0.067	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorooctanesulfonic acid (PFOS)	0.29	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:39	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	94.5	8-130		12/4/24 0:39
13C5-PFPeA	98.4	35-130		12/4/24 0:39
13C5-PFHxA	96.3	40-130		12/4/24 0:39
13C4-PFHpA	96.2	40-130		12/4/24 0:39
13C8-PFOA	95.9	40-130		12/4/24 0:39
13C9-PFNA	96.6	40-130		12/4/24 0:39
13C6-PFDA	97.8	40-130		12/4/24 0:39
13C7-PFUnA	106	40-130		12/4/24 0:39
13C2-PFDoA	100	40-130		12/4/24 0:39
13C2-PFTeDA	109	20-130		12/4/24 0:39
13C3-PFBS	94.5	40-135		12/4/24 0:39
13C3-PFHxS	96.4	40-130		12/4/24 0:39
13C8-PFOS	96.6	40-130		12/4/24 0:39
13C2-4:2FTS	109	40-165		12/4/24 0:39
13C2-6:2FTS	116	40-215		12/4/24 0:39
13C2-8:2FTS	138	40-275		12/4/24 0:39
13C8-PFOSA	86.3	40-130		12/4/24 0:39
D3-NMeFOSA	79.7	10-130		12/4/24 0:39
D5-NEtFOSA	78.0	10-130		12/4/24 0:39
D3-NMeFOSAA	93.9	40-135		12/4/24 0:39
D5-NEtFOSAA	99.0	40-150		12/4/24 0:39
D7-NMeFOSE	89.1	20-130		12/4/24 0:39
D9-NEtFOSE	90.1	15-130		12/4/24 0:39
13C3-HFPO-DA	101	40-130		12/4/24 0:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.028	0.052	0.020	mg/Kg dry	10	P-02, J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
gamma-Chlordane [2]	0.024	0.052	0.022	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
Aldrin [1]	ND	0.052	0.0051	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
alpha-BHC [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
beta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
delta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
gamma-BHC (Lindane) [1]	ND	0.021	0.0072	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
4,4'-DDD [2]	ND	0.042	0.0058	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
4,4'-DDE [1]	0.025	0.042	0.0046	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
4,4'-DDT [1]	0.060	0.042	0.0054	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Dieldrin [1]	0.018	0.042	0.0050	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endosulfan I [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endosulfan II [1]	ND	0.083	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endosulfan sulfate [1]	ND	0.083	0.020	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endrin [1]	ND	0.083	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Endrin aldehyde [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 22:22	TG
Endrin ketone [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Heptachlor [1]	ND	0.052	0.0057	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Heptachlor epoxide [2]	ND	0.052	0.0061	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Methoxychlor [1]	ND	0.52	0.062	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG
Toxaphene [1]	ND	1.0	0.44	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 1:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.4	30-150		11/26/24 1:41
Decachlorobiphenyl [1]	77.5	30-150		11/23/24 22:22
Decachlorobiphenyl [2]	74.0	30-150		11/23/24 22:22
Decachlorobiphenyl [2]	80.2	30-150		11/26/24 1:41
Tetrachloro-m-xylene [1]	70.8	30-150		11/26/24 1:41
Tetrachloro-m-xylene [1]	70.6	30-150		11/23/24 22:22
Tetrachloro-m-xylene [2]	68.2	30-150		11/26/24 1:41
Tetrachloro-m-xylene [2]	98.9	30-150		11/23/24 22:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1221 [1]	ND	0.087	0.040	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1232 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1242 [1]	ND	0.087	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1248 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1254 [1]	0.030	0.087	0.026	mg/Kg dry	4	J	SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1260 [1]	ND	0.087	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1262 [1]	ND	0.087	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW
Aroclor-1268 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:13	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.2	30-150		11/17/24 15:13
Decachlorobiphenyl [2]	72.6	30-150		11/17/24 15:13
Tetrachloro-m-xylene [1]	72.5	30-150		11/17/24 15:13
Tetrachloro-m-xylene [2]	83.6	30-150		11/17/24 15:13

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	18	5.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Arsenic	8.7	3.6	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Barium	47	1.8	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Beryllium	0.37	0.18	0.054	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Cadmium	0.61	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Calcium	27000	180	93	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:29	HNN
Chromium	13	0.71	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Cobalt	3.6	1.8	0.30	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Copper	28	1.4	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Iron	9600	18	8.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Lead	26	0.54	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Magnesium	11000	180	42	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:29	HNN
Manganese	190	0.36	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Mercury	0.043	0.028	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:08	MJH
Nickel	8.2	0.71	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Potassium	630	180	44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 20:37	HNN
Selenium	ND	3.6	0.88	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Sodium	95	180	53	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Thallium	ND	1.8	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Vanadium	17	0.71	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN
Zinc	86	0.71	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:43	HNN

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SS) 102924
Sampled: 10/29/2024 00:00

Sample ID: 24K0186-04

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.53	0.40	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.074	0.038	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Amyl Alcohol (TAA)	ND	0.015	0.0032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0015	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00074	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Benzene	ND	0.0015	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromochloromethane	ND	0.0015	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromodichloromethane	ND	0.0015	0.00038	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromoform	ND	0.0015	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Bromomethane	ND	0.0074	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
2-Butanone (MEK)	ND	0.030	0.0063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Butyl Alcohol (TBA)	ND	0.074	0.030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
n-Butylbenzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
sec-Butylbenzene	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Butylbenzene	ND	0.0015	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00074	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Carbon Disulfide	ND	0.015	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Carbon Tetrachloride	ND	0.0015	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chlorobenzene	ND	0.0015	0.00036	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chlorodibromomethane	ND	0.00074	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chloroethane	ND	0.015	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chloroform	ND	0.0030	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Chloromethane	ND	0.0074	0.00090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Cyclohexane	ND	0.0074	0.0030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dibromoethane (EDB)	ND	0.00074	0.00054	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dichlorobenzene	ND	0.0015	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,3-Dichlorobenzene	ND	0.0015	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,4-Dichlorobenzene	ND	0.0015	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1-Dichloroethane	ND	0.0015	0.00045	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dichloroethane	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1-Dichloroethylene	ND	0.0030	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
cis-1,2-Dichloroethylene	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
trans-1,2-Dichloroethylene	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2-Dichloropropane	ND	0.0015	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
cis-1,3-Dichloropropene	ND	0.00074	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
trans-1,3-Dichloropropene	ND	0.00074	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Diisopropyl Ether (DIPE)	ND	0.00074	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Ethanol	ND	0.15	0.030	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Ethylbenzene	ND	0.0015	0.00043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
2-Hexanone (MBK)	ND	0.015	0.0051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Methyl Acetate	ND	0.0015	0.00099	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Methyl Cyclohexane	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Methylene Chloride	ND	0.015	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	0.0065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Naphthalene	ND	0.0030	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
n-Propylbenzene	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Styrene	ND	0.0015	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.00074	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Tetrachloroethylene	ND	0.0015	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Toluene	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,3-Trichlorobenzene	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,4-Trichlorobenzene	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,1-Trichloroethane	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,2-Trichloroethane	ND	0.0015	0.00038	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Trichloroethylene	ND	0.0015	0.00056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0074	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,3-Trichloropropane	ND	0.0015	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0074	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
1,3,5-Trimethylbenzene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Vinyl Chloride	ND	0.0074	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
m+p Xylene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
o-Xylene	ND	0.0015	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF
Xylenes (total)	ND	0.0015	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.4	70-130		11/5/24 10:05
Toluene-d8	101	70-130		11/5/24 10:05
4-Bromofluorobenzene	97.5	70-130		11/5/24 10:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Atrazine	ND	1.4	0.094	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzaldehyde	ND	0.73	0.12	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Biphenyl	ND	1.4	0.093	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Caprolactam	ND	0.73	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Acenaphthene	ND	0.37	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Acenaphthylene	ND	0.37	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Acetophenone	ND	0.73	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Aniline	ND	0.73	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Anthracene	0.076	0.37	0.064	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(a)anthracene	0.51	0.37	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(a)pyrene	0.64	0.37	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(b)fluoranthene	0.98	0.37	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(g,h,i)perylene	0.55	0.37	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Benzo(k)fluoranthene	0.37	0.37	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Bis(2-chloroethoxy)methane	ND	0.73	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Bis(2-chloroethyl)ether	ND	0.73	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.73	0.46	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Bis(2-Ethylhexyl)phthalate	0.12	0.73	0.086	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Bromophenylphenylether	ND	0.73	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Butylbenzylphthalate	ND	0.73	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Carbazole	ND	0.37	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Chloroaniline	ND	1.4	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Chloro-3-methylphenol	ND	1.4	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Chloronaphthalene	ND	0.73	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Chlorophenol	ND	0.73	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Chlorophenylphenylether	ND	0.73	0.060	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Chrysene	0.67	0.37	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Dibenz(a,h)anthracene	0.11	0.37	0.10	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Dibenzofuran	ND	0.73	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Di-n-butylphthalate	ND	0.73	0.28	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
3,3-Dichlorobenzidine	ND	0.37	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dichlorophenol	ND	0.73	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Diethylphthalate	ND	0.73	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dimethylphenol	ND	0.73	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Dimethylphthalate	ND	0.73	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4,6-Dinitro-2-methylphenol	ND	0.73	0.58	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dinitrophenol	ND	1.4	0.56	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4-Dinitrotoluene	ND	0.73	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,6-Dinitrotoluene	ND	0.73	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Di-n-octylphthalate	ND	0.73	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Fluoranthene	1.3	0.37	0.060	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Fluorene	ND	0.37	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Hexachlorobenzene	ND	0.73	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.73	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Hexachlorocyclopentadiene	ND	0.73	0.48	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Hexachloroethane	ND	0.73	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Indeno(1,2,3-cd)pyrene	0.52	0.37	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Isophorone	ND	0.73	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
1-Methylnaphthalene	ND	0.37	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Methylnaphthalene	ND	0.37	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Methylphenol	ND	0.73	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
3/4-Methylphenol	ND	0.73	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Naphthalene	ND	0.37	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Nitroaniline	ND	0.73	0.089	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
3-Nitroaniline	ND	0.73	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Nitroaniline	ND	0.73	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Nitrobenzene	ND	0.73	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2-Nitrophenol	ND	0.73	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
4-Nitrophenol	ND	1.4	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.73	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
N-Nitrosodi-n-propylamine	ND	0.73	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Pentachlorophenol	ND	0.73	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Phenanthrene	0.56	0.37	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Phenol	ND	0.73	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Pyrene	0.99	0.37	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
Pyridine	ND	0.73	0.085	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/11/24 19:14	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.73	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4,5-Trichlorophenol	ND	0.73	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC
2,4,6-Trichlorophenol	ND	0.73	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:14	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.2	30-130		11/11/24 19:14
Phenol-d6	67.9	30-130		11/11/24 19:14
Nitrobenzene-d5	70.3	30-130		11/11/24 19:14
2-Fluorobiphenyl	57.5	30-130		11/11/24 19:14
2,4,6-Tribromophenol	75.1	30-130		11/11/24 19:14
p-Terphenyl-d14	67.3	30-130		11/11/24 19:14

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.055	0.043	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 18:39	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	41.4	15-110		11/15/24 18:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorodecanoic acid (PFDA)	0.18	0.20	0.062	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoroundecanoic acid (PFUnA)	0.37	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorododecanoic acid (PFDoA)	0.55	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorotridecanoic acid (PFTrDA)	0.47	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorotetradecanoic acid (PFTeDA)	0.36	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorooctanesulfonic acid (PFOS)	0.071	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:49	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	106	8-130		12/4/24 0:49
13C5-PFPeA	106	35-130		12/4/24 0:49
13C5-PFHxA	105	40-130		12/4/24 0:49
13C4-PFHpA	103	40-130		12/4/24 0:49
13C8-PFOA	111	40-130		12/4/24 0:49
13C9-PFNA	106	40-130		12/4/24 0:49
13C6-PFDA	114	40-130		12/4/24 0:49
13C7-PFUnA	120	40-130		12/4/24 0:49
13C2-PFDoA	113	40-130		12/4/24 0:49
13C2-PFTeDA	117	20-130		12/4/24 0:49
13C3-PFBS	103	40-135		12/4/24 0:49
13C3-PFHxS	102	40-130		12/4/24 0:49
13C8-PFOS	102	40-130		12/4/24 0:49
13C2-4:2FTS	109	40-165		12/4/24 0:49
13C2-6:2FTS	113	40-215		12/4/24 0:49
13C2-8:2FTS	125	40-275		12/4/24 0:49
13C8-PFOSA	94.7	40-130		12/4/24 0:49
D3-NMeFOSA	87.0	10-130		12/4/24 0:49
D5-NEtFOSA	87.4	10-130		12/4/24 0:49
D3-NMeFOSAA	106	40-135		12/4/24 0:49
D5-NEtFOSAA	107	40-150		12/4/24 0:49
D7-NMeFOSE	99.1	20-130		12/4/24 0:49
D9-NEtFOSE	101	15-130		12/4/24 0:49
13C3-HFPO-DA	106	40-130		12/4/24 0:49

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.054	0.055	0.021	mg/Kg dry	10	P-02, J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
gamma-Chlordane [1]	0.057	0.055	0.024	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Aldrin [1]	ND	0.055	0.0054	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
alpha-BHC [1]	ND	0.055	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
beta-BHC [1]	ND	0.055	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
delta-BHC [1]	ND	0.055	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
gamma-BHC (Lindane) [1]	ND	0.022	0.0077	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
4,4'-DDD [1]	ND	0.044	0.0094	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
4,4'-DDE [1]	ND	0.044	0.0049	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
4,4'-DDT [1]	0.011	0.044	0.0057	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Dieldrin [2]	0.011	0.044	0.0063	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endosulfan I [1]	ND	0.055	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endosulfan II [1]	ND	0.089	0.024	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endosulfan sulfate [1]	ND	0.089	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endrin [1]	ND	0.089	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Endrin aldehyde [1]	ND	0.089	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 22:34	TG
Endrin ketone [1]	ND	0.089	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Heptachlor [1]	0.010	0.055	0.0061	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Heptachlor epoxide [1]	0.011	0.055	0.0064	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 2:09	TG
Methoxychlor [1]	ND	0.55	0.066	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG
Toxaphene [1]	ND	1.1	0.46	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 2:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		11/26/24 2:09
Decachlorobiphenyl [1]	86.3	30-150		11/23/24 22:34
Decachlorobiphenyl [2]	81.5	30-150		11/26/24 2:09
Decachlorobiphenyl [2]	86.8	30-150		11/23/24 22:34
Tetrachloro-m-xylene [1]	78.2	30-150		11/26/24 2:09
Tetrachloro-m-xylene [1]	80.4	30-150		11/23/24 22:34
Tetrachloro-m-xylene [2]	75.9	30-150		11/26/24 2:09
Tetrachloro-m-xylene [2]	84.4	30-150		11/23/24 22:34

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1221 [1]	ND	0.088	0.041	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1232 [1]	ND	0.088	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1242 [1]	ND	0.088	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1248 [1]	ND	0.088	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1254 [1]	ND	0.088	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1260 [1]	ND	0.088	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1262 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW
Aroclor-1268 [1]	ND	0.088	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:30	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.8	30-150		11/17/24 15:30
Decachlorobiphenyl [2]	64.4	30-150		11/17/24 15:30
Tetrachloro-m-xylene [1]	74.3	30-150		11/17/24 15:30
Tetrachloro-m-xylene [2]	77.8	30-150		11/17/24 15:30

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924
Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	18	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Antimony	ND	1.8	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Arsenic	9.5	3.6	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Barium	49	1.8	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Beryllium	0.60	0.18	0.055	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Cadmium	0.52	0.36	0.17	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Calcium	30000	180	94	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:44	HNN
Chromium	21	0.73	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Cobalt	5.5	1.8	0.31	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Copper	69	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Iron	12000	18	8.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Lead	120	0.55	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Magnesium	8400	180	42	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 20:44	HNN
Manganese	220	0.36	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Mercury	0.063	0.028	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:10	MJH
Nickel	19	0.73	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Potassium	740	180	45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 20:52	HNN
Selenium	ND	3.6	0.90	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Silver	ND	0.36	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Sodium	180	180	54	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Thallium	ND	1.8	0.58	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Vanadium	19	0.73	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN
Zinc	310	0.73	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:51	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-2(SS) 102924 | Sampled: 10/29/2024 08:10

Sample ID: 24K0186-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2			% Wt	1	H-06	SM 2540G	11/12/24	11/12/24 15:12	MLR
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.048	0.025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Amyl Alcohol (TAA)	ND	0.0096	0.0021	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.00096	0.00034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00048	0.00045	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Benzene	ND	0.00096	0.00030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromochloromethane	ND	0.00096	0.00041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromodichloromethane	ND	0.00096	0.00025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromoform	ND	0.00096	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Bromomethane	ND	0.0048	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
2-Butanone (MEK)	ND	0.019	0.0041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
n-Butylbenzene	ND	0.00096	0.00035	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
sec-Butylbenzene	ND	0.00096	0.00039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Butylbenzene	ND	0.00096	0.00035	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00048	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Carbon Disulfide	ND	0.0096	0.0048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Carbon Tetrachloride	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chlorobenzene	ND	0.00096	0.00023	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chlorodibromomethane	ND	0.00048	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chloroethane	ND	0.0096	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chloroform	ND	0.0019	0.00031	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Chloromethane	ND	0.0048	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Cyclohexane	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.00039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dibromoethane (EDB)	ND	0.00048	0.00035	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dichlorobenzene	ND	0.00096	0.00031	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,3-Dichlorobenzene	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,4-Dichlorobenzene	ND	0.00096	0.00030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0096	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1-Dichloroethane	ND	0.00096	0.00029	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dichloroethane	ND	0.00096	0.00033	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1-Dichloroethylene	ND	0.0019	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
cis-1,2-Dichloroethylene	ND	0.00096	0.00033	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
trans-1,2-Dichloroethylene	ND	0.00096	0.00029	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2-Dichloropropane	ND	0.00096	0.00030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
cis-1,3-Dichloropropene	ND	0.00048	0.00036	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
trans-1,3-Dichloropropene	ND	0.00048	0.00037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Diisopropyl Ether (DIPE)	ND	0.00048	0.00039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Ethanol	ND	0.096	0.019	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Ethylbenzene	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
2-Hexanone (MBK)	ND	0.0096	0.0033	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Isopropylbenzene (Cumene)	ND	0.00096	0.00037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00096	0.00031	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Methyl Acetate	ND	0.00096	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Methyl Cyclohexane	ND	0.00096	0.00034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Methylene Chloride	ND	0.0096	0.00045	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0096	0.0042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Naphthalene	ND	0.0019	0.00047	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
n-Propylbenzene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Styrene	ND	0.00096	0.00030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.00048	0.00037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Tetrachloroethylene	ND	0.00096	0.00042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Toluene	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,3-Trichlorobenzene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,4-Trichlorobenzene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,1-Trichloroethane	ND	0.00096	0.00028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,2-Trichloroethane	ND	0.00096	0.00025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Trichloroethylene	ND	0.00096	0.00036	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0048	0.00057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,3-Trichloropropane	ND	0.00096	0.00039	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0048	0.00050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,2,4-Trimethylbenzene	ND	0.00096	0.00046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
1,3,5-Trimethylbenzene	ND	0.00096	0.00038	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Vinyl Chloride	ND	0.0048	0.00037	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
m+p Xylene	ND	0.0019	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
o-Xylene	ND	0.00096	0.00032	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF
Xylenes (total)	ND	0.00096	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.6	70-130		11/5/24 10:30
Toluene-d8	100	70-130		11/5/24 10:30
4-Bromofluorobenzene	96.3	70-130		11/5/24 10:30

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.093	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Atrazine	ND	1.4	0.089	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzaldehyde	ND	0.69	0.11	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Biphenyl	ND	1.4	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Caprolactam	ND	0.69	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Acenaphthene	ND	0.35	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Acenaphthylene	ND	0.35	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Acetophenone	ND	0.69	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Aniline	ND	0.69	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Anthracene	ND	0.35	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(a)anthracene	0.32	0.35	0.056	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(a)pyrene	0.38	0.35	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(b)fluoranthene	0.57	0.35	0.056	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(g,h,i)perylene	0.35	0.35	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Benzo(k)fluoranthene	0.20	0.35	0.062	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Bis(2-chloroethoxy)methane	ND	0.69	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Bis(2-chloroethyl)ether	ND	0.69	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.69	0.44	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Bis(2-Ethylhexyl)phthalate	0.25	0.69	0.082	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Bromophenylphenylether	ND	0.69	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Butylbenzylphthalate	ND	0.69	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Carbazole	ND	0.35	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Chloroaniline	ND	1.3	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Chloro-3-methylphenol	ND	1.3	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Chloronaphthalene	ND	0.69	0.060	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Chlorophenol	ND	0.69	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Chlorophenylphenylether	ND	0.69	0.057	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Chrysene	0.37	0.35	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Dibenz(a,h)anthracene	ND	0.35	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Dibenzofuran	ND	0.69	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Di-n-butylphthalate	ND	0.69	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
3,3-Dichlorobenzidine	ND	0.35	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dichlorophenol	ND	0.69	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Diethylphthalate	ND	0.69	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dimethylphenol	ND	0.69	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Dimethylphthalate	ND	0.69	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4,6-Dinitro-2-methylphenol	ND	0.69	0.54	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dinitrophenol	ND	1.3	0.53	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4-Dinitrotoluene	ND	0.69	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,6-Dinitrotoluene	ND	0.69	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Di-n-octylphthalate	ND	0.69	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Fluoranthene	0.70	0.35	0.057	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Fluorene	ND	0.35	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Hexachlorobenzene	ND	0.69	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.69	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Hexachlorocyclopentadiene	ND	0.69	0.45	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Hexachloroethane	ND	0.69	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Indeno(1,2,3-cd)pyrene	0.34	0.35	0.11	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Isophorone	ND	0.69	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
1-Methylnaphthalene	ND	0.35	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Methylnaphthalene	ND	0.35	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Methylphenol	ND	0.69	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
3/4-Methylphenol	ND	0.69	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Naphthalene	ND	0.35	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Nitroaniline	ND	0.69	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
3-Nitroaniline	ND	0.69	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Nitroaniline	ND	0.69	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Nitrobenzene	ND	0.69	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2-Nitrophenol	ND	0.69	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
4-Nitrophenol	ND	1.3	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.69	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
N-Nitrosodi-n-propylamine	ND	0.69	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Pentachlorophenol	ND	0.69	0.25	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Phenanthrene	0.27	0.35	0.061	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Phenol	ND	0.69	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Pyrene	0.61	0.35	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
Pyridine	ND	0.69	0.081	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/11/24 19:39	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.69	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4,5-Trichlorophenol	ND	0.69	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC
2,4,6-Trichlorophenol	ND	0.69	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 19:39	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	74.0	30-130		11/11/24 19:39
Phenol-d6	76.8	30-130		11/11/24 19:39
Nitrobenzene-d5	82.3	30-130		11/11/24 19:39
2-Fluorobiphenyl	67.1	30-130		11/11/24 19:39
2,4,6-Tribromophenol	77.2	30-130		11/11/24 19:39
p-Terphenyl-d14	78.7	30-130		11/11/24 19:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.051	0.041	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 19:00	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	45.0	15-110		11/15/24 19:00

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorooctanesulfonic acid (PFOS)	0.073	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.34	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.0	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 0:58	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	96.9	8-130		12/4/24 0:58
13C5-PFPeA	102	35-130		12/4/24 0:58
13C5-PFHxA	103	40-130		12/4/24 0:58
13C4-PFHpA	99.8	40-130		12/4/24 0:58
13C8-PFOA	102	40-130		12/4/24 0:58
13C9-PFNA	96.1	40-130		12/4/24 0:58
13C6-PFDA	101	40-130		12/4/24 0:58
13C7-PFUnA	106	40-130		12/4/24 0:58
13C2-PFDoA	105	40-130		12/4/24 0:58
13C2-PFTeDA	110	20-130		12/4/24 0:58
13C3-PFBS	102	40-135		12/4/24 0:58
13C3-PFHxS	106	40-130		12/4/24 0:58
13C8-PFOS	104	40-130		12/4/24 0:58
13C2-4:2FTS	110	40-165		12/4/24 0:58
13C2-6:2FTS	117	40-215		12/4/24 0:58
13C2-8:2FTS	134	40-275		12/4/24 0:58
13C8-PFOSA	88.2	40-130		12/4/24 0:58
D3-NMeFOSA	84.7	10-130		12/4/24 0:58
D5-NEtFOSA	87.6	10-130		12/4/24 0:58
D3-NMeFOSAA	91.2	40-135		12/4/24 0:58
D5-NEtFOSAA	96.8	40-150		12/4/24 0:58
D7-NMeFOSE	99.2	20-130		12/4/24 0:58
D9-NEtFOSE	92.6	15-130		12/4/24 0:58
13C3-HFPO-DA	106	40-130		12/4/24 0:58

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.048	0.10	0.039	mg/Kg dry	20	P-02, J	SW-846 8081B	11/11/24	11/26/24 2:37	TG
gamma-Chlordane [2]	0.047	0.10	0.042	mg/Kg dry	20	J	SW-846 8081B	11/11/24	11/26/24 2:37	TG
Aldrin [2]	ND	0.10	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
alpha-BHC [1]	ND	0.10	0.048	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
beta-BHC [1]	ND	0.10	0.054	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
delta-BHC [1]	ND	0.10	0.054	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
gamma-BHC (Lindane) [1]	ND	0.041	0.014	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
4,4'-DDD [2]	ND	0.081	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
4,4'-DDE [1]	ND	0.081	0.0090	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
4,4'-DDT [1]	0.029	0.081	0.010	mg/Kg dry	20	J	SW-846 8081B	11/11/24	11/26/24 2:37	TG
Dieldrin [2]	0.084	0.081	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endosulfan I [1]	ND	0.10	0.049	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endosulfan II [1]	ND	0.16	0.044	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endosulfan sulfate [1]	ND	0.16	0.039	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endrin [1]	ND	0.16	0.051	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Endrin aldehyde [1]	ND	0.16	0.040	mg/Kg dry	20		SW-846 8081B	11/11/24	11/23/24 22:46	TG
Endrin ketone [1]	ND	0.16	0.041	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Heptachlor [1]	ND	0.10	0.011	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Heptachlor epoxide [2]	ND	0.10	0.012	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Methoxychlor [1]	ND	1.0	0.12	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG
Toxaphene [1]	ND	2.0	0.85	mg/Kg dry	20		SW-846 8081B	11/11/24	11/26/24 2:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.3	30-150		11/26/24 2:37
Decachlorobiphenyl [1]	95.2	30-150		11/23/24 22:46
Decachlorobiphenyl [2]	93.5	30-150		11/26/24 2:37
Decachlorobiphenyl [2]	89.6	30-150		11/23/24 22:46
Tetrachloro-m-xylene [1]	84.4	30-150		11/26/24 2:37
Tetrachloro-m-xylene [1]	84.6	30-150		11/23/24 22:46
Tetrachloro-m-xylene [2]	79.9	30-150		11/26/24 2:37
Tetrachloro-m-xylene [2]	88.4	30-150		11/23/24 22:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1221 [1]	ND	0.083	0.038	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1232 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1242 [1]	ND	0.083	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1248 [1]	ND	0.083	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1254 [1]	0.058	0.083	0.025	mg/Kg dry	4	J	SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1260 [1]	ND	0.083	0.017	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1262 [1]	ND	0.083	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW
Aroclor-1268 [1]	ND	0.083	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 15:47	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.7	30-150		11/17/24 15:47
Decachlorobiphenyl [2]	69.3	30-150		11/17/24 15:47
Tetrachloro-m-xylene [1]	70.5	30-150		11/17/24 15:47
Tetrachloro-m-xylene [2]	82.8	30-150		11/17/24 15:47

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	17	5.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Antimony	ND	1.7	0.46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Arsenic	5.6	3.4	0.49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Barium	48	1.7	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Beryllium	0.28	0.17	0.052	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Cadmium	0.27	0.34	0.16	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Calcium	65000	170	89	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 21:13	HNN
Chromium	14	0.69	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Cobalt	3.0	1.7	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Copper	30	1.4	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Iron	11000	17	8.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Lead	21	0.52	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Magnesium	25000	170	40	mg/Kg dry	10		SW-846 6010D	11/6/24	11/11/24 21:13	HNN
Manganese	190	0.34	0.20	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Mercury	0.051	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:11	MJH
Nickel	8.9	0.69	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Potassium	1200	170	43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:21	HNN
Selenium	ND	3.4	0.86	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Sodium	200	170	51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Thallium	ND	1.7	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Vanadium	18	0.69	0.38	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN
Zinc	92	0.69	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 19:58	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DPT-1(SS) 102924 | Sampled: 10/29/2024 08:55

Sample ID: 24K0186-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.49	0.37	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Benzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromochloromethane	ND	0.0020	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromodichloromethane	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromoform	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
2-Butanone (MEK)	ND	0.040	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
n-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
sec-Butylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Carbon Tetrachloride	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chlorobenzene	ND	0.0020	0.00048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chlorodibromomethane	ND	0.0010	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chloroform	ND	0.0040	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Cyclohexane	ND	0.010	0.0041	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00088	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1-Dichloroethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1-Dichloroethylene	ND	0.0040	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00060	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2-Dichloropropane	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	MS-07A, V-05	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Ethylbenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
2-Hexanone (MBK)	ND	0.020	0.0069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Methyl Cyclohexane	ND	0.0020	0.00072	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Methylene Chloride	ND	0.020	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Naphthalene	ND	0.0040	0.00099	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
n-Propylbenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Styrene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Tetrachloroethylene	ND	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Toluene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Trichloroethylene	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Vinyl Chloride	ND	0.010	0.00078	mg/Kg dry	1	MS-07A	SW-846 8260D	11/5/24	11/5/24 7:54	MFF
m+p Xylene	ND	0.0040	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
o-Xylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 7:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		11/5/24 7:54
Toluene-d8	98.6	70-130		11/5/24 7:54
4-Bromofluorobenzene	98.0	70-130		11/5/24 7:54

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.4	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Atrazine	ND	1.4	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzaldehyde	ND	0.71	0.11	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Biphenyl	ND	1.4	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Caprolactam	ND	0.71	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Acenaphthene	ND	0.36	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Acenaphthylene	ND	0.36	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Acetophenone	ND	0.71	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Aniline	ND	0.71	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Anthracene	ND	0.36	0.063	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(a)anthracene	0.11	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(a)pyrene	0.14	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(b)fluoranthene	0.23	0.36	0.058	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(g,h,i)perylene	0.15	0.36	0.10	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Benzo(k)fluoranthene	0.098	0.36	0.065	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Bis(2-chloroethoxy)methane	ND	0.71	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Bis(2-chloroethyl)ether	ND	0.71	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.71	0.45	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Bis(2-Ethylhexyl)phthalate	0.10	0.71	0.084	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Bromophenylphenylether	ND	0.71	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Butylbenzylphthalate	ND	0.71	0.079	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Carbazole	ND	0.36	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Chloroaniline	ND	1.4	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Chloro-3-methylphenol	ND	1.4	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Chloronaphthalene	ND	0.71	0.062	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Chlorophenol	ND	0.71	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Chlorophenylphenylether	ND	0.71	0.059	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Chrysene	0.16	0.36	0.063	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Dibenz(a,h)anthracene	ND	0.36	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Dibenzofuran	ND	0.71	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Di-n-butylphthalate	ND	0.71	0.27	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
3,3-Dichlorobenzidine	ND	0.36	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dichlorophenol	ND	0.71	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Diethylphthalate	ND	0.71	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dimethylphenol	ND	0.71	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Dimethylphthalate	ND	0.71	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4,6-Dinitro-2-methylphenol	ND	0.71	0.56	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dinitrophenol	ND	1.4	0.55	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4-Dinitrotoluene	ND	0.71	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,6-Dinitrotoluene	ND	0.71	0.075	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Di-n-octylphthalate	ND	0.71	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Fluoranthene	0.25	0.36	0.059	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Fluorene	ND	0.36	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Hexachlorobenzene	ND	0.71	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.71	0.064	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Hexachlorocyclopentadiene	ND	0.71	0.47	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Hexachloroethane	ND	0.71	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Indeno(1,2,3-cd)pyrene	0.13	0.36	0.12	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Isophorone	ND	0.71	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
1-Methylnaphthalene	ND	0.36	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Methylnaphthalene	ND	0.36	0.061	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Methylphenol	ND	0.71	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
3/4-Methylphenol	ND	0.71	0.094	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Naphthalene	ND	0.36	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Nitroaniline	ND	0.71	0.087	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
3-Nitroaniline	ND	0.71	0.15	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Nitroaniline	ND	0.71	0.079	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Nitrobenzene	ND	0.71	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2-Nitrophenol	ND	0.71	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
4-Nitrophenol	ND	1.4	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.71	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
N-Nitrosodi-n-propylamine	ND	0.71	0.099	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Pentachlorophenol	ND	0.71	0.26	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Phenanthrene	0.10	0.36	0.063	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Phenol	ND	0.71	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Pyrene	0.22	0.36	0.074	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
Pyridine	ND	0.71	0.083	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/11/24 20:03	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.71	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4,5-Trichlorophenol	ND	0.71	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC
2,4,6-Trichlorophenol	ND	0.71	0.068	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 20:03	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	55.6	30-130		11/11/24 20:03
Phenol-d6	60.6	30-130		11/11/24 20:03
Nitrobenzene-d5	61.6	30-130		11/11/24 20:03
2-Fluorobiphenyl	51.2	30-130		11/11/24 20:03
2,4,6-Tribromophenol	61.0	30-130		11/11/24 20:03
p-Terphenyl-d14	56.7	30-130		11/11/24 20:03

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.053	0.042	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 19:21	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	35.4	15-110		11/15/24 19:21

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorooctanoic acid (PFOA)	0.069	0.20	0.069	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorodecanoic acid (PFDA)	0.098	0.20	0.062	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoroundecanoic acid (PFUnA)	0.086	0.20	0.082	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorododecanoic acid (PFDoA)	0.18	0.20	0.074	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorotridecanoic acid (PFTrDA)	0.11	0.20	0.063	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorotetradecanoic acid (PFTeDA)	0.13	0.20	0.067	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorooctanesulfonic acid (PFOS)	0.25	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:07	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
13C4-PFBA	98.4	8-130		12/4/24	1:07
13C5-PFPeA	98.6	35-130		12/4/24	1:07
13C5-PFHxA	98.0	40-130		12/4/24	1:07
13C4-PFHpA	94.9	40-130		12/4/24	1:07
13C8-PFOA	101	40-130		12/4/24	1:07
13C9-PFNA	96.8	40-130		12/4/24	1:07
13C6-PFDA	101	40-130		12/4/24	1:07
13C7-PFUnA	102	40-130		12/4/24	1:07
13C2-PFDoA	107	40-130		12/4/24	1:07
13C2-PFTeDA	108	20-130		12/4/24	1:07
13C3-PFBS	100	40-135		12/4/24	1:07
13C3-PFHxS	99.6	40-130		12/4/24	1:07
13C8-PFOS	104	40-130		12/4/24	1:07
13C2-4:2FTS	112	40-165		12/4/24	1:07
13C2-6:2FTS	129	40-215		12/4/24	1:07
13C2-8:2FTS	153	40-275		12/4/24	1:07
13C8-PFOSA	89.6	40-130		12/4/24	1:07
D3-NMeFOSA	79.3	10-130		12/4/24	1:07
D5-NEtFOSA	75.8	10-130		12/4/24	1:07
D3-NMeFOSAA	102	40-135		12/4/24	1:07
D5-NEtFOSAA	101	40-150		12/4/24	1:07
D7-NMeFOSE	99.0	20-130		12/4/24	1:07
D9-NEtFOSE	96.5	15-130		12/4/24	1:07
13C3-HFPO-DA	101	40-130		12/4/24	1:07

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	0.027	0.052	0.020	mg/Kg dry	10	P-02, J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
gamma-Chlordane [1]	0.025	0.052	0.023	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
Aldrin [1]	ND	0.052	0.0051	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
alpha-BHC [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
beta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
delta-BHC [1]	ND	0.052	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
gamma-BHC (Lindane) [1]	ND	0.021	0.0072	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
4,4'-DDD [1]	ND	0.042	0.0089	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
4,4'-DDE [1]	0.024	0.042	0.0046	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
4,4'-DDT [1]	0.051	0.042	0.0054	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Dieldrin [1]	0.018	0.042	0.0050	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endosulfan I [1]	ND	0.052	0.025	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endosulfan II [1]	ND	0.083	0.022	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endosulfan sulfate [1]	ND	0.083	0.020	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endrin [1]	ND	0.083	0.026	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Endrin aldehyde [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 22:58	TG
Endrin ketone [1]	ND	0.083	0.021	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Heptachlor [1]	ND	0.052	0.0057	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Heptachlor epoxide [1]	ND	0.052	0.0061	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Methoxychlor [1]	ND	0.52	0.062	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG
Toxaphene [1]	ND	1.0	0.44	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 3:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		11/26/24 3:05
Decachlorobiphenyl [1]	66.1	30-150		11/23/24 22:58
Decachlorobiphenyl [2]	67.0	30-150		11/26/24 3:05
Decachlorobiphenyl [2]	66.5	30-150		11/23/24 22:58
Tetrachloro-m-xylene [1]	65.8	30-150		11/26/24 3:05
Tetrachloro-m-xylene [1]	62.3	30-150		11/23/24 22:58
Tetrachloro-m-xylene [2]	80.3	30-150		11/23/24 22:58
Tetrachloro-m-xylene [2]	61.3	30-150		11/26/24 3:05

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1221 [1]	ND	0.085	0.039	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1232 [1]	ND	0.085	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1242 [1]	ND	0.085	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1248 [1]	ND	0.085	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1254 [1]	0.028	0.085	0.025	mg/Kg dry	4	J	SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1260 [1]	ND	0.085	0.018	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1262 [1]	ND	0.085	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW
Aroclor-1268 [1]	ND	0.085	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:05	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		11/17/24 16:05
Decachlorobiphenyl [2]	66.3	30-150		11/17/24 16:05
Tetrachloro-m-xylene [1]	70.0	30-150		11/17/24 16:05
Tetrachloro-m-xylene [2]	74.3	30-150		11/17/24 16:05

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924
Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6500	17	5.3	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Antimony	ND	1.7	0.45	mg/Kg dry	1	MS-07A	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Arsenic	7.3	3.4	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Barium	50	1.7	0.36	mg/Kg dry	1	MS-22	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Beryllium	0.35	0.17	0.051	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Cadmium	0.63	0.34	0.16	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Calcium	23000	170	88	mg/Kg dry	10	MS-19	SW-846 6010D	11/6/24	11/11/24 19:58	HNN
Chromium	14	0.68	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Cobalt	3.3	1.7	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Copper	25	1.4	1.2	mg/Kg dry	1	MS-22	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Iron	9500	17	7.8	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Lead	22	0.51	0.36	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Magnesium	9700	170	39	mg/Kg dry	10	MS-19	SW-846 6010D	11/6/24	11/11/24 19:58	HNN
Manganese	180	0.34	0.19	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Mercury	0.038	0.027	0.012	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 22:52	MJH
Nickel	7.7	0.68	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Potassium	600	170	42	mg/Kg dry	1	MS-19	SW-846 6010D	11/6/24	11/11/24 20:06	HNN
Selenium	ND	3.4	0.84	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Silver	ND	0.34	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Sodium	92	170	50	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Thallium	ND	1.7	0.54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Vanadium	14	0.68	0.37	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN
Zinc	76	0.68	0.59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 18:12	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: MW-1(SS) 102924 | Sampled: 10/29/2024 08:45

Sample ID: 24K0186-07

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.52	0.39	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: Trip Blank 102924 | Sampled: 10/28/2024 00:00

Sample ID: 24K0186-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.7	50	2.0	µg/L	1	V-05, J	SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: Trip Blank 102924 | Sampled: 10/28/2024 00:00

Sample ID: 24K0186-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 11:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.9	70-130		11/6/24 11:02
Toluene-d8	98.4	70-130		11/6/24 11:02
4-Bromofluorobenzene	100	70-130		11/6/24 11:02

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Amyl Alcohol (TAA)	ND	0.020	0.0043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Benzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromochloromethane	ND	0.0020	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromodichloromethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromoform	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
2-Butanone (MEK)	ND	0.040	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.042	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
n-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
sec-Butylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Butylbenzene	ND	0.0020	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Carbon Disulfide	ND	0.020	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Carbon Tetrachloride	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chlorobenzene	ND	0.0020	0.00049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chlorodibromomethane	ND	0.0010	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chloroethane	ND	0.020	0.0014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chloroform	ND	0.0040	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Chloromethane	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Cyclohexane	ND	0.010	0.0041	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00063	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1-Dichloroethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1-Dichloroethylene	ND	0.0040	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2-Dichloropropane	ND	0.0020	0.00062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Ethanol	ND	0.20	0.040	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Ethylbenzene	ND	0.0020	0.00058	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
2-Hexanone (MBK)	ND	0.020	0.0069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Methyl Acetate	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Methyl Cyclohexane	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Methylene Chloride	ND	0.020	0.00095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Naphthalene	ND	0.0040	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
n-Propylbenzene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Styrene	ND	0.0020	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Tetrachloroethylene	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Toluene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,2-Trichloroethane	ND	0.0020	0.00052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Trichloroethylene	ND	0.0020	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,3-Trichloropropane	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Vinyl Chloride	ND	0.010	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
m+p Xylene	ND	0.0040	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
o-Xylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF
Xylenes (total)	ND	0.0020	0.0020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 10:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		11/5/24 10:56
Toluene-d8	101	70-130		11/5/24 10:56
4-Bromofluorobenzene	97.1	70-130		11/5/24 10:56

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.6	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Atrazine	ND	1.6	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzaldehyde	ND	0.81	0.13	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Biphenyl	ND	1.6	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Caprolactam	ND	0.81	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Acenaphthene	ND	0.40	0.077	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Acenaphthylene	ND	0.40	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Acetophenone	ND	0.81	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Aniline	ND	0.81	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Anthracene	0.14	0.40	0.071	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(a)anthracene	0.54	0.40	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(a)pyrene	0.58	0.40	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(b)fluoranthene	0.73	0.40	0.065	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(g,h,i)perylene	0.38	0.40	0.12	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Benzo(k)fluoranthene	0.33	0.40	0.073	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Bis(2-chloroethoxy)methane	ND	0.81	0.086	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Bis(2-chloroethyl)ether	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.81	0.51	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.81	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Bromophenylphenylether	ND	0.81	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Butylbenzylphthalate	ND	0.81	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Carbazole	ND	0.40	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Chloroaniline	ND	1.6	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Chloro-3-methylphenol	ND	1.6	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Chloronaphthalene	ND	0.81	0.070	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Chlorophenol	ND	0.81	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Chlorophenylphenylether	ND	0.81	0.067	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Chrysene	0.57	0.40	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Dibenz(a,h)anthracene	ND	0.40	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Dibenzofuran	ND	0.81	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Di-n-butylphthalate	ND	0.81	0.31	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
3,3-Dichlorobenzidine	ND	0.40	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dichlorophenol	ND	0.81	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Diethylphthalate	ND	0.81	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dimethylphenol	ND	0.81	0.19	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Dimethylphthalate	ND	0.81	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4,6-Dinitro-2-methylphenol	ND	0.81	0.63	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dinitrophenol	ND	1.6	0.62	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4-Dinitrotoluene	ND	0.81	0.082	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,6-Dinitrotoluene	ND	0.81	0.085	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Di-n-octylphthalate	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Fluoranthene	1.3	0.40	0.066	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Fluorene	ND	0.40	0.072	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Hexachlorobenzene	ND	0.81	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.81	0.073	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Hexachlorocyclopentadiene	ND	0.81	0.53	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Hexachloroethane	ND	0.81	0.074	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Indeno(1,2,3-cd)pyrene	0.42	0.40	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Isophorone	ND	0.81	0.086	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
1-Methylnaphthalene	ND	0.40	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Methylnaphthalene	ND	0.40	0.069	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Methylphenol	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
3/4-Methylphenol	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Naphthalene	ND	0.40	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Nitroaniline	ND	0.81	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
3-Nitroaniline	ND	0.81	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Nitroaniline	ND	0.81	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Nitrobenzene	ND	0.81	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2-Nitrophenol	ND	0.81	0.078	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
4-Nitrophenol	ND	1.6	0.21	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.81	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
N-Nitrosodi-n-propylamine	ND	0.81	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Pentachlorophenol	ND	0.81	0.29	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Phenanthrene	0.65	0.40	0.071	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Phenol	ND	0.81	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Pyrene	1.2	0.40	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
Pyridine	ND	0.81	0.094	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/11/24 21:18	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.81	0.080	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4,5-Trichlorophenol	ND	0.81	0.082	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC
2,4,6-Trichlorophenol	ND	0.81	0.076	mg/Kg dry	2		SW-846 8270E	11/10/24	11/11/24 21:18	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	70.1	30-130		11/11/24 21:18
Phenol-d6	76.8	30-130		11/11/24 21:18
Nitrobenzene-d5	79.0	30-130		11/11/24 21:18
2-Fluorobiphenyl	69.4	30-130		11/11/24 21:18
2,4,6-Tribromophenol	85.4	30-130		11/11/24 21:18
p-Terphenyl-d14	85.4	30-130		11/11/24 21:18

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924
Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.059	0.047	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 20:25	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	38.5	15-110		11/15/24 20:25

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:16	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	81.0	8-130		12/4/24 1:16
13C5-PFPeA	102	35-130		12/4/24 1:16
13C5-PFHxA	107	40-130		12/4/24 1:16
13C4-PFHpA	103	40-130		12/4/24 1:16
13C8-PFOA	98.0	40-130		12/4/24 1:16
13C9-PFNA	101	40-130		12/4/24 1:16
13C6-PFDA	108	40-130		12/4/24 1:16
13C7-PFUnA	111	40-130		12/4/24 1:16
13C2-PFDoA	112	40-130		12/4/24 1:16
13C2-PFTeDA	116	20-130		12/4/24 1:16
13C3-PFBS	107	40-135		12/4/24 1:16
13C3-PFHxS	107	40-130		12/4/24 1:16
13C8-PFOS	105	40-130		12/4/24 1:16
13C2-4:2FTS	96.3	40-165		12/4/24 1:16
13C2-6:2FTS	91.7	40-215		12/4/24 1:16
13C2-8:2FTS	101	40-275		12/4/24 1:16
13C8-PFOSA	99.0	40-130		12/4/24 1:16
D3-NMeFOSA	92.3	10-130		12/4/24 1:16
D5-NEtFOSA	93.7	10-130		12/4/24 1:16
D3-NMeFOSAA	101	40-135		12/4/24 1:16
D5-NEtFOSAA	99.9	40-150		12/4/24 1:16
D7-NMeFOSE	109	20-130		12/4/24 1:16
D9-NEtFOSE	111	15-130		12/4/24 1:16
13C3-HFPO-DA	109	40-130		12/4/24 1:16

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.029	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
gamma-Chlordane [1]	ND	0.029	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Aldrin [1]	ND	0.029	0.0028	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
alpha-BHC [1]	ND	0.029	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
beta-BHC [1]	ND	0.029	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
delta-BHC [1]	ND	0.029	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
gamma-BHC (Lindane) [1]	ND	0.011	0.0040	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
4,4'-DDD [2]	ND	0.023	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
4,4'-DDE [1]	ND	0.023	0.0025	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
4,4'-DDT [2]	ND	0.023	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Dieldrin [2]	ND	0.023	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endosulfan I [1]	ND	0.029	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endosulfan II [1]	ND	0.046	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endosulfan sulfate [1]	ND	0.046	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endrin [1]	ND	0.046	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Endrin aldehyde [1]	ND	0.046	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/23/24 23:10	TG
Endrin ketone [1]	ND	0.046	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Heptachlor [1]	ND	0.029	0.0031	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Heptachlor epoxide [1]	ND	0.029	0.0033	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Methoxychlor [1]	ND	0.29	0.034	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG
Toxaphene [1]	ND	0.57	0.24	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 3:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.0	30-150		11/23/24 23:10
Decachlorobiphenyl [1]	86.2	30-150		11/26/24 3:33
Decachlorobiphenyl [2]	84.1	30-150		11/23/24 23:10
Decachlorobiphenyl [2]	83.2	30-150		11/26/24 3:33
Tetrachloro-m-xylene [1]	75.7	30-150		11/23/24 23:10
Tetrachloro-m-xylene [1]	69.4	30-150		11/26/24 3:33
Tetrachloro-m-xylene [2]	80.4	30-150		11/23/24 23:10
Tetrachloro-m-xylene [2]	67.3	30-150		11/26/24 3:33

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1221 [1]	ND	0.095	0.044	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1232 [1]	ND	0.095	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1242 [1]	ND	0.095	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1248 [1]	ND	0.095	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1254 [1]	ND	0.095	0.028	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1260 [1]	ND	0.095	0.020	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1262 [1]	ND	0.095	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW
Aroclor-1268 [1]	ND	0.095	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 16:22	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		11/17/24 16:22
Decachlorobiphenyl [2]	84.0	30-150		11/17/24 16:22
Tetrachloro-m-xylene [1]	75.2	30-150		11/17/24 16:22
Tetrachloro-m-xylene [2]	88.5	30-150		11/17/24 16:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1100	19	6.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Arsenic	1.9	3.8	0.54	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Barium	14	1.9	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Beryllium	0.086	0.19	0.058	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Cadmium	ND	0.38	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Calcium	10000	19	9.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Chromium	3.8	0.76	0.48	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Cobalt	0.69	1.9	0.32	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Copper	14	1.5	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Iron	2600	19	8.8	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Lead	57	0.57	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Magnesium	4400	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Manganese	38	0.38	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Mercury	0.32	0.030	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:13	MJH
Nickel	2.2	0.76	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Potassium	310	190	47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:28	HNN
Selenium	ND	3.8	0.95	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Sodium	2800	190	57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Vanadium	3.6	0.76	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN
Zinc	30	0.76	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:05	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (0.5-1) 102924 | Sampled: 10/29/2024 16:10

Sample ID: 24K0186-09

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Amyl Alcohol (TAA)	ND	0.025	0.0053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Amyl Ethyl Ether (TAEE)	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Benzene	ND	0.0025	0.00078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromochloromethane	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromodichloromethane	ND	0.0025	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromoform	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Bromomethane	ND	0.012	0.0022	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
2-Butanone (MEK)	ND	0.050	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Butyl Alcohol (TBA)	ND	0.12	0.051	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
n-Butylbenzene	ND	0.0025	0.00090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
sec-Butylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Butylbenzene	ND	0.0025	0.00090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Carbon Disulfide	ND	0.025	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Carbon Tetrachloride	ND	0.0025	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chlorobenzene	ND	0.0025	0.00060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chlorodibromomethane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chloroethane	ND	0.025	0.0017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chloroform	ND	0.0050	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Chloromethane	ND	0.012	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Cyclohexane	ND	0.012	0.0050	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0050	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.00090	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,4-Dichlorobenzene	ND	0.0025	0.00077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1-Dichloroethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dichloroethane	ND	0.0025	0.00085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1-Dichloroethylene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2-Dichloropropane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Ethanol	ND	0.25	0.050	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Ethylbenzene	ND	0.0025	0.00071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
2-Hexanone (MBK)	ND	0.025	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	0.00080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Methyl Acetate	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Methyl Cyclohexane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Methylene Chloride	ND	0.025	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Naphthalene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
n-Propylbenzene	ND	0.0025	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Styrene	ND	0.0025	0.00079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Tetrachloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Toluene	ND	0.0025	0.00073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00082	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.00081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,1-Trichloroethane	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,2-Trichloroethane	ND	0.0025	0.00064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Trichloroethylene	ND	0.0025	0.00093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,3-Trichloropropane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,2,4-Trimethylbenzene	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
1,3,5-Trimethylbenzene	ND	0.0025	0.00099	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Vinyl Chloride	ND	0.012	0.00096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
m+p Xylene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
o-Xylene	ND	0.0025	0.00084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF
Xylenes (total)	ND	0.0025	0.0025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/5/24 11:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.9	70-130		11/5/24 11:21
Toluene-d8	99.8	70-130		11/5/24 11:21
4-Bromofluorobenzene	97.2	70-130		11/5/24 11:21

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Atrazine	ND	0.82	0.054	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzaldehyde	ND	0.42	0.067	mg/Kg dry	1	V-05	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Biphenyl	ND	0.82	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Caprolactam	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Acenaphthene	ND	0.21	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Acenaphthylene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Acetophenone	ND	0.42	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Aniline	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Anthracene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(a)anthracene	ND	0.21	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(a)pyrene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(b)fluoranthene	ND	0.21	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(g,h,i)perylene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Benzo(k)fluoranthene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Bis(2-chloroethoxy)methane	ND	0.42	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Bis(2-chloroethyl)ether	ND	0.42	0.059	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.42	0.26	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.049	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Bromophenylphenylether	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Butylbenzylphthalate	ND	0.42	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Carbazole	ND	0.21	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Chloroaniline	ND	0.81	0.074	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Chloro-3-methylphenol	ND	0.81	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Chloronaphthalene	ND	0.42	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Chlorophenol	ND	0.42	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Chlorophenylphenylether	ND	0.42	0.035	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Chrysene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Dibenz(a,h)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Dibenzofuran	ND	0.42	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Di-n-butylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
3,3-Dichlorobenzidine	ND	0.21	0.090	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dichlorophenol	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Diethylphthalate	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dimethylphenol	ND	0.42	0.096	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Dimethylphthalate	ND	0.42	0.039	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4,6-Dinitro-2-methylphenol	ND	0.42	0.33	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dinitrophenol	ND	0.81	0.32	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4-Dinitrotoluene	ND	0.42	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,6-Dinitrotoluene	ND	0.42	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Di-n-octylphthalate	ND	0.42	0.059	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Fluoranthene	0.045	0.21	0.034	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Fluorene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Hexachlorobenzene	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Hexachlorocyclopentadiene	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Hexachloroethane	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Indeno(1,2,3-cd)pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Isophorone	ND	0.42	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
1-Methylnaphthalene	ND	0.21	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Methylnaphthalene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Methylphenol	ND	0.42	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
3/4-Methylphenol	ND	0.42	0.055	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Naphthalene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Nitroaniline	ND	0.42	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
3-Nitroaniline	ND	0.42	0.087	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Nitroaniline	ND	0.42	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Nitrobenzene	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2-Nitrophenol	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
4-Nitrophenol	ND	0.81	0.11	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
N-Nitrosodi-n-propylamine	ND	0.42	0.058	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Pentachlorophenol	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Phenanthrene	ND	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Phenol	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Pyrene	0.047	0.21	0.043	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
Pyridine	ND	0.42	0.049	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/10/24	11/12/24 11:22	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4,5-Trichlorophenol	ND	0.42	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC
2,4,6-Trichlorophenol	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:22	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	69.2	30-130		11/12/24 11:22
Phenol-d6	80.3	30-130		11/12/24 11:22
Nitrobenzene-d5	74.7	30-130		11/12/24 11:22
2-Fluorobiphenyl	69.6	30-130		11/12/24 11:22
2,4,6-Tribromophenol	88.6	30-130		11/12/24 11:22
p-Terphenyl-d14	78.9	30-130		11/12/24 11:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.061	0.048	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 20:46	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	32.0	15-110		11/15/24 20:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.36	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.31	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.6	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.091	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	12/3/24	12/4/24 13:20	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.5	8-130		12/4/24 13:20
13C5-PFPeA	102	35-130		12/4/24 13:20
13C5-PFHxA	105	40-130		12/4/24 13:20
13C4-PFHpA	101	40-130		12/4/24 13:20
13C8-PFOA	106	40-130		12/4/24 13:20
13C9-PFNA	99.2	40-130		12/4/24 13:20
13C6-PFDA	104	40-130		12/4/24 13:20
13C7-PFUnA	107	40-130		12/4/24 13:20
13C2-PFDoA	105	40-130		12/4/24 13:20
13C2-PFTeDA	109	20-130		12/4/24 13:20
13C3-PFBS	92.9	40-135		12/4/24 13:20
13C3-PFHxS	96.2	40-130		12/4/24 13:20
13C8-PFOS	101	40-130		12/4/24 13:20
13C2-4:2FTS	97.7	40-165		12/4/24 13:20
13C2-6:2FTS	102	40-215		12/4/24 13:20
13C2-8:2FTS	92.2	40-275		12/4/24 13:20
13C8-PFOSA	88.1	40-130		12/4/24 13:20
D3-NMeFOSA	87.5	10-130		12/4/24 13:20
D5-NEtFOSA	93.9	10-130		12/4/24 13:20
D3-NMeFOSAA	93.1	40-135		12/4/24 13:20
D5-NEtFOSAA	94.2	40-150		12/4/24 13:20
D7-NMeFOSE	101	20-130		12/4/24 13:20
D9-NEtFOSE	108	15-130		12/4/24 13:20
13C3-HFPO-DA	106	40-130		12/4/24 13:20

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
gamma-Chlordane [1]	ND	0.0059	0.0026	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Aldrin [1]	ND	0.0059	0.00058	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
alpha-BHC [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
beta-BHC [1]	ND	0.0059	0.0032	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
delta-BHC [1]	ND	0.0059	0.0031	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
gamma-BHC (Lindane) [1]	ND	0.0024	0.00082	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
4,4'-DDD [1]	ND	0.0048	0.0010	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
4,4'-DDE [1]	ND	0.0048	0.00053	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
4,4'-DDT [1]	ND	0.0048	0.00061	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Dieldrin [1]	ND	0.0048	0.00057	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endosulfan I [1]	ND	0.0059	0.0028	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endosulfan II [1]	ND	0.0095	0.0026	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endosulfan sulfate [1]	ND	0.0095	0.0023	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endrin [1]	ND	0.0095	0.0030	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Endrin aldehyde [1]	ND	0.0095	0.0023	mg/Kg dry	1		SW-846 8081B	11/11/24	11/23/24 23:22	TG
Endrin ketone [1]	ND	0.0095	0.0024	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Heptachlor [1]	ND	0.0059	0.00065	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Heptachlor epoxide [1]	ND	0.0059	0.00069	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Methoxychlor [1]	ND	0.059	0.0070	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG
Toxaphene [1]	ND	0.12	0.050	mg/Kg dry	1		SW-846 8081B	11/11/24	11/26/24 4:01	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.4	30-150		11/26/24 4:01
Decachlorobiphenyl [1]	83.1	30-150		11/23/24 23:22
Decachlorobiphenyl [2]	72.4	30-150		11/26/24 4:01
Decachlorobiphenyl [2]	82.5	30-150		11/23/24 23:22
Tetrachloro-m-xylene [1]	72.8	30-150		11/23/24 23:22
Tetrachloro-m-xylene [1]	66.8	30-150		11/26/24 4:01
Tetrachloro-m-xylene [2]	61.3	30-150		11/26/24 4:01
Tetrachloro-m-xylene [2]	79.0	30-150		11/23/24 23:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924 | Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1221 [1]	ND	0.099	0.046	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1232 [1]	ND	0.099	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1242 [1]	ND	0.099	0.027	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1248 [1]	ND	0.099	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1254 [1]	ND	0.099	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1260 [1]	ND	0.099	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1262 [1]	ND	0.099	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW
Aroclor-1268 [1]	ND	0.099	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:18	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		11/17/24 18:18
Decachlorobiphenyl [2]	92.6	30-150		11/17/24 18:18
Tetrachloro-m-xylene [1]	73.7	30-150		11/17/24 18:18
Tetrachloro-m-xylene [2]	79.7	30-150		11/17/24 18:18

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924
Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6000	20	6.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Antimony	ND	2.0	0.54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Arsenic	14	4.0	0.57	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Barium	12	2.0	0.43	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Beryllium	0.68	0.20	0.061	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Cadmium	ND	0.40	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Calcium	2300	20	10	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Chromium	12	0.81	0.51	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Cobalt	4.9	2.0	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Copper	3.5	1.6	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Iron	9200	20	9.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Lead	27	0.60	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Magnesium	1300	20	4.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Manganese	51	0.40	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Mercury	0.040	0.030	0.014	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:15	MJH
Nickel	3.9	0.81	0.56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Potassium	500	200	50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:36	HNN
Selenium	ND	4.0	1.0	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Sodium	2000	200	60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Vanadium	46	0.81	0.45	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN
Zinc	19	0.81	0.71	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:13	HNN

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-3 (1-2) 102924
Sampled: 10/29/2024 16:15

Sample ID: 24K0186-10

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05	SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Tetrachloroethylene	0.43	1.0	0.17	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 15:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.6	70-130		11/6/24 15:44
Toluene-d8	102	70-130		11/6/24 15:44
4-Bromofluorobenzene	102	70-130		11/6/24 15:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzaldehyde	ND	9.5	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Acetophenone	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Aniline	ND	19	8.5	µg/L	1	V-05	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.5	0.71	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Bromophenylphenylether	ND	9.5	0.67	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Butylbenzylphthalate	ND	9.5	0.37	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Carbazole	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Chlorophenylphenylether	ND	9.5	0.82	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Di-n-butylphthalate	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
3,3-Dichlorobenzidine	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dichlorophenol	ND	9.5	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Dimethylphthalate	ND	9.5	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04, V-05	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Fluorene	ND	4.7	0.72	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Hexachlorobenzene	ND	9.5	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Hexachloroethane	ND	9.5	1.2	µg/L	1	L-04	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Isophorone	ND	9.5	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
1-Methylnaphthalene	ND	4.7	0.93	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Methylphenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
3/4-Methylphenol	ND	9.5	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Naphthalene	ND	4.7	0.86	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Nitroaniline	ND	9.5	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2-Nitrophenol	ND	9.5	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Pentachlorophenol	ND	9.5	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Phenol	ND	9.5	0.56	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Pyrene	ND	4.7	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	SW-846 8270E	11/5/24	11/7/24 15:01	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:01	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	17.5	15-110		11/7/24 15:01
Phenol-d6	17.7	15-110		11/7/24 15:01
Nitrobenzene-d5	66.7	30-130		11/7/24 15:01
2-Fluorobiphenyl	65.9	30-130		11/7/24 15:01
2,4,6-Tribromophenol	31.1	15-110		11/7/24 15:01
p-Terphenyl-d14	92.1	30-130		11/7/24 15:01

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.12	0.22	0.035	µg/L	1	J	SW-846 8270E	11/4/24	11/12/24 5:31	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	27.1	15-110		11/12/24 5:31	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	6.7	0.83	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoropentanoic acid (PFPeA)	16	3.3	0.46	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorohexanoic acid (PFHxA)	13	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoroheptanoic acid (PFHpA)	9.9	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorooctanoic acid (PFOA)	22	1.7	0.43	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorononanoic acid (PFNA)	4.3	1.7	0.68	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorodecanoic acid (PFDA)	1.1	1.7	0.40	ng/L	1	J	Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.53	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	1.7	0.36	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.3	1.7	0.65	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.88	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorooctanesulfonic acid (PFOS)	8.1	1.7	0.41	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.4	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.34	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.67	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.88	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.97	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.7	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.3	2.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	42	9.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.3	0.45	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:37	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	83.0	5-130		11/26/24 15:37
13C5-PFPeA	84.7	40-130		11/26/24 15:37
13C5-PFHxA	85.0	40-130		11/26/24 15:37
13C4-PFHpA	76.2	40-130		11/26/24 15:37
13C8-PFOA	82.5	40-130		11/26/24 15:37
13C9-PFNA	76.8	40-130		11/26/24 15:37
13C6-PFDA	88.2	40-130		11/26/24 15:37
13C7-PFUnA	83.1	30-130		11/26/24 15:37
13C2-PFDoA	82.8	10-130		11/26/24 15:37
13C2-PFTeDA	71.3	10-130		11/26/24 15:37
13C3-PFBS	81.7	40-135		11/26/24 15:37
13C3-PFHxS	76.6	40-130		11/26/24 15:37
13C8-PFOS	82.0	40-130		11/26/24 15:37
13C2-4:2FTS	106	40-200		11/26/24 15:37
13C2-6:2FTS	74.2	40-200		11/26/24 15:37
13C2-8:2FTS	68.5	40-300		11/26/24 15:37
13C8-PFOSA	66.1	40-130		11/26/24 15:37
D3-NMeFOSA	60.7	10-130		11/26/24 15:37
D5-NEtFOSA	57.4	10-130		11/26/24 15:37
D3-NMeFOSAA	63.9	40-170		11/26/24 15:37
D5-NEtFOSAA	65.3	25-135		11/26/24 15:37
D7-NMeFOSE	59.1	10-130		11/26/24 15:37
D9-NEtFOSE	52.9	10-130		11/26/24 15:37
13C3-HFPO-DA	86.7	40-130		11/26/24 15:37

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.053	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Barium	0.038	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Calcium	37	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Iron	0.17	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Lead	0.0055	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Magnesium	49	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Manganese	0.023	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:12	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Potassium	16	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Sodium	390	2.0	0.38	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:29	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Vanadium	0.0065	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:05	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:05	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-1-102924 | Sampled: 10/29/2024 16:45

Sample ID: 24K0186-11

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	MS-09, V-05	SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Ethanol	ND	50	20	µg/L	1	MS-09	SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Tetrachloroethylene	0.28	1.0	0.17	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.2	70-130		11/6/24 16:10
Toluene-d8	100	70-130		11/6/24 16:10
4-Bromofluorobenzene	98.9	70-130		11/6/24 16:10

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.7	µg/L	1	R-06, MS-09	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Atrazine	ND	20	1.6	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzaldehyde	ND	10	0.73	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Biphenyl	ND	20	0.92	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Caprolactam	ND	10	0.72	µg/L	1	L-04, MS-09	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Acenaphthene	ND	5.0	0.79	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Acenaphthylene	ND	5.0	0.64	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Acetophenone	ND	10	0.50	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Aniline	ND	20	9.0	µg/L	1	V-05	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Anthracene	ND	5.0	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(a)anthracene	ND	5.0	0.38	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(a)pyrene	ND	5.0	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(b)fluoranthene	ND	5.0	0.32	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(g,h,i)perylene	ND	5.0	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Benzo(k)fluoranthene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Bis(2-chloroethoxy)methane	ND	10	0.58	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Bis(2-chloroethyl)ether	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.75	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.32	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Bromophenylphenylether	ND	10	0.71	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Carbazole	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Chloroaniline	ND	10	5.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Chloro-3-methylphenol	ND	10	0.64	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Chloronaphthalene	ND	10	0.82	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Chlorophenol	ND	10	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Chlorophenylphenylether	ND	10	0.87	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Chrysene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Dibenz(a,h)anthracene	ND	5.0	0.48	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Dibenzofuran	ND	5.0	0.86	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Di-n-butylphthalate	ND	10	0.50	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
3,3-Dichlorobenzidine	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dichlorophenol	ND	10	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Diethylphthalate	ND	10	0.56	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dimethylphenol	ND	10	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Dimethylphthalate	ND	10	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dinitrophenol	ND	10	1.3	µg/L	1	MS-09, V-04, V-05	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4-Dinitrotoluene	ND	10	0.35	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,6-Dinitrotoluene	ND	10	0.55	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Fluoranthene	ND	5.0	0.57	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Fluorene	ND	5.0	0.76	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Hexachlorobenzene	ND	10	0.72	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Hexachlorocyclopentadiene	ND	10	2.8	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Hexachloroethane	ND	10	1.3	µg/L	1	L-04, MS-09	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	0.48	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Isophorone	ND	10	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
1-Methylnaphthalene	ND	5.0	0.98	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Methylnaphthalene	ND	5.0	0.94	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Methylphenol	ND	10	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
3/4-Methylphenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Naphthalene	ND	5.0	0.91	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Nitroaniline	ND	10	0.50	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
3-Nitroaniline	ND	10	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Nitroaniline	ND	10	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Nitrobenzene	ND	10	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2-Nitrophenol	ND	10	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1	MS-09, R-06	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.48	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
N-Nitrosodi-n-propylamine	ND	10	0.66	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Pentachlorophenol	ND	10	0.48	µg/L	1	R-06, MS-09	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Phenanthrene	ND	5.0	0.72	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Phenol	ND	10	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Pyrene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
Pyridine	ND	20	5.2	µg/L	1	MS-09, V-34	SW-846 8270E	11/5/24	11/7/24 15:22	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4,5-Trichlorophenol	ND	10	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:22	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	21.4	15-110		11/7/24 15:22
Phenol-d6	24.0	15-110		11/7/24 15:22
Nitrobenzene-d5	81.5	30-130		11/7/24 15:22
2-Fluorobiphenyl	79.2	30-130		11/7/24 15:22
2,4,6-Tribromophenol	30.8	15-110		11/7/24 15:22
p-Terphenyl-d14	98.9	30-130		11/7/24 15:22

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.13	0.19	0.032	µg/L	1	J	SW-846 8270E	11/5/24	11/12/24 5:51	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.2	15-110		11/12/24 5:51	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	6.5	0.81	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoropentanoic acid (PFPeA)	14	3.2	0.45	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorohexanoic acid (PFHxA)	12	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoroheptanoic acid (PFHpA)	9.2	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorooctanoic acid (PFOA)	19	1.6	0.42	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorononanoic acid (PFNA)	4.5	1.6	0.66	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorodecanoic acid (PFDA)	1.7	1.6	0.39	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.1	1.6	0.63	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorooctanesulfonic acid (PFOS)	13	1.6	0.40	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.57	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.58	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.44	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	11/21/24	11/26/24 15:46	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.1	5-130		11/26/24 15:46
13C5-PFPeA	81.8	40-130		11/26/24 15:46
13C5-PFHxA	81.2	40-130		11/26/24 15:46
13C4-PFHpA	75.8	40-130		11/26/24 15:46
13C8-PFOA	89.8	40-130		11/26/24 15:46
13C9-PFNA	75.6	40-130		11/26/24 15:46
13C6-PFDA	85.5	40-130		11/26/24 15:46
13C7-PFUnA	71.7	30-130		11/26/24 15:46
13C2-PFDoA	72.8	10-130		11/26/24 15:46
13C2-PFTeDA	64.4	10-130		11/26/24 15:46
13C3-PFBS	84.1	40-135		11/26/24 15:46
13C3-PFHxS	86.0	40-130		11/26/24 15:46
13C8-PFOS	73.3	40-130		11/26/24 15:46
13C2-4:2FTS	97.8	40-200		11/26/24 15:46
13C2-6:2FTS	70.9	40-200		11/26/24 15:46
13C2-8:2FTS	73.7	40-300		11/26/24 15:46
13C8-PFOSA	64.4	40-130		11/26/24 15:46
D3-NMeFOSA	60.3	10-130		11/26/24 15:46
D5-NEtFOSA	49.3	10-130		11/26/24 15:46
D3-NMeFOSAA	60.9	40-170		11/26/24 15:46
D5-NEtFOSAA	65.8	25-135		11/26/24 15:46
D7-NMeFOSE	59.0	10-130		11/26/24 15:46
D9-NEtFOSE	52.5	10-130		11/26/24 15:46
13C3-HFPO-DA	84.9	40-130		11/26/24 15:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.098	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Barium	0.034	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Calcium	39	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Iron	0.27	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Lead	0.0057	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Magnesium	59	0.050	0.016	mg/L	1	MS-19	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Manganese	0.025	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:18	AAJ
Nickel	0.0050	0.010	0.0046	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Potassium	19	2.0	0.47	mg/L	1	MS-19	SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:37	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Sodium	520	20	3.8	mg/L	10	MS-19	SW-846 6010D	11/6/24	11/9/24 11:03	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Vanadium	0.0065	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 9:26	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 9:26	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-2-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-12

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.34	4.7	0.19	mg/Kg dry	1	V-05, J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Amyl Alcohol (TAA)	ND	1.9	0.12	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.19	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.047	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Benzene	ND	0.093	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromochloromethane	ND	0.093	0.030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromodichloromethane	ND	0.093	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromoform	ND	0.093	0.028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Bromomethane	ND	0.19	0.14	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
2-Butanone (MEK)	ND	1.9	0.13	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Butyl Alcohol (TBA)	ND	1.9	0.32	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
n-Butylbenzene	ND	0.093	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
sec-Butylbenzene	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Butylbenzene	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.047	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Carbon Disulfide	ND	0.47	0.14	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Carbon Tetrachloride	ND	0.093	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chlorobenzene	ND	0.093	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chlorodibromomethane	ND	0.047	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chloroethane	ND	0.19	0.043	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chloroform	ND	0.19	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Chloromethane	ND	0.19	0.046	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Cyclohexane	ND	0.19	0.16	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.47	0.059	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dibromoethane (EDB)	ND	0.047	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dichlorobenzene	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,3-Dichlorobenzene	ND	0.093	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,4-Dichlorobenzene	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.19	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1-Dichloroethane	ND	0.093	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dichloroethane	ND	0.093	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1-Dichloroethylene	ND	0.093	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
cis-1,2-Dichloroethylene	ND	0.093	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
trans-1,2-Dichloroethylene	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2-Dichloropropane	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
cis-1,3-Dichloropropene	ND	0.047	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
trans-1,3-Dichloropropene	ND	0.047	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Diisopropyl Ether (DIPE)	ND	0.047	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Ethanol	ND	19	1.9	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Ethylbenzene	ND	0.093	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
2-Hexanone (MBK)	ND	0.93	0.13	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Isopropylbenzene (Cumene)	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Methyl Acetate	1.6	0.93	0.045	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Methyl Cyclohexane	ND	0.093	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Methylene Chloride	ND	0.47	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.93	0.13	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Naphthalene	0.029	0.19	0.023	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
n-Propylbenzene	ND	0.093	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Styrene	ND	0.093	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,2,2-Tetrachloroethane	ND	0.047	0.0095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Tetrachloroethylene	ND	0.093	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Toluene	ND	0.093	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,3-Trichlorobenzene	ND	0.47	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,4-Trichlorobenzene	ND	0.093	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,1-Trichloroethane	ND	0.093	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,2-Trichloroethane	ND	0.093	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Trichloroethylene	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Trichlorofluoromethane (Freon 11)	ND	0.19	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,3-Trichloropropane	ND	0.19	0.025	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.093	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,2,4-Trimethylbenzene	0.074	0.093	0.015	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
1,3,5-Trimethylbenzene	0.029	0.093	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Vinyl Chloride	ND	0.19	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH
m+p Xylene	0.029	0.19	0.023	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
o-Xylene	0.032	0.093	0.014	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:26	EEH
Xylenes (total)	ND	0.093	0.093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.8	70-130		11/6/24 17:26
Toluene-d8	114	70-130		11/6/24 17:26
4-Bromofluorobenzene	99.3	70-130		11/6/24 17:26

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.99	0.068	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Atrazine	ND	0.99	0.064	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzaldehyde	ND	0.50	0.080	mg/Kg dry	1	V-05	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Biphenyl	ND	0.99	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Caprolactam	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Acenaphthene	ND	0.25	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Acenaphthylene	ND	0.25	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Acetophenone	ND	0.50	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Aniline	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Anthracene	0.064	0.25	0.044	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(a)anthracene	0.19	0.25	0.041	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(a)pyrene	0.27	0.25	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(b)fluoranthene	0.54	0.25	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(g,h,i)perylene	0.27	0.25	0.072	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Benzo(k)fluoranthene	0.18	0.25	0.045	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Bis(2-chloroethoxy)methane	ND	0.50	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Bis(2-chloroethyl)ether	ND	0.50	0.071	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.50	0.32	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Bis(2-Ethylhexyl)phthalate	0.17	0.50	0.059	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Bromophenylphenylether	ND	0.50	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Butylbenzylphthalate	ND	0.50	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Carbazole	0.068	0.25	0.051	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Chloroaniline	ND	0.97	0.089	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Chloro-3-methylphenol	ND	0.97	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Chloronaphthalene	ND	0.50	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Chlorophenol	ND	0.50	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Chlorophenylphenylether	ND	0.50	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Chrysene	0.35	0.25	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Dibenz(a,h)anthracene	ND	0.25	0.069	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Dibenzofuran	ND	0.50	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Di-n-butylphthalate	ND	0.50	0.19	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
3,3-Dichlorobenzidine	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dichlorophenol	ND	0.50	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Diethylphthalate	ND	0.50	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dimethylphenol	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Dimethylphthalate	ND	0.50	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4,6-Dinitro-2-methylphenol	ND	0.50	0.39	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dinitrophenol	ND	0.97	0.38	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4-Dinitrotoluene	ND	0.50	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,6-Dinitrotoluene	ND	0.50	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Di-n-octylphthalate	ND	0.50	0.071	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Fluoranthene	0.45	0.25	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Fluorene	ND	0.25	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Hexachlorobenzene	ND	0.50	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Hexachlorocyclopentadiene	ND	0.50	0.33	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Hexachloroethane	ND	0.50	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Indeno(1,2,3-cd)pyrene	0.28	0.25	0.081	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Isophorone	ND	0.50	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
1-Methylnaphthalene	ND	0.25	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Methylnaphthalene	ND	0.25	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Methylphenol	ND	0.50	0.067	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
3/4-Methylphenol	ND	0.50	0.066	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Naphthalene	ND	0.25	0.088	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Nitroaniline	ND	0.50	0.061	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
3-Nitroaniline	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Nitroaniline	ND	0.50	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Nitrobenzene	ND	0.50	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2-Nitrophenol	ND	0.50	0.049	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
4-Nitrophenol	ND	0.97	0.13	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.50	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
N-Nitrosodi-n-propylamine	ND	0.50	0.070	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Pentachlorophenol	ND	0.50	0.18	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Phenanthrene	0.13	0.25	0.044	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Phenol	ND	0.50	0.063	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Pyrene	0.46	0.25	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
Pyridine	ND	0.50	0.058	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/10/24	11/12/24 11:47	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4,5-Trichlorophenol	ND	0.50	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC
2,4,6-Trichlorophenol	ND	0.50	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 11:47	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	73.9	30-130		11/12/24 11:47
Phenol-d6	79.8	30-130		11/12/24 11:47
Nitrobenzene-d5	82.7	30-130		11/12/24 11:47
2-Fluorobiphenyl	71.0	30-130		11/12/24 11:47
2,4,6-Tribromophenol	89.1	30-130		11/12/24 11:47
p-Terphenyl-d14	72.9	30-130		11/12/24 11:47

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.074	0.059	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 21:07	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	33.9	15-110		11/15/24 21:07

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoroundecanoic acid (PFUnA)	0.085	0.20	0.082	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorododecanoic acid (PFDoA)	0.13	0.20	0.074	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorotridecanoic acid (PFTrDA)	0.21	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorotetradecanoic acid (PFTeDA)	0.14	0.20	0.067	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorobutanesulfonic acid (PFBS)	0.39	0.20	0.063	µg/kg dry	1	PF-23	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorooctanesulfonic acid (PFOS)	0.14	0.20	0.060	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:35	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.4	8-130		12/4/24 1:35
13C5-PFPeA	97.2	35-130		12/4/24 1:35
13C5-PFHxA	99.2	40-130		12/4/24 1:35
13C4-PFHpA	101	40-130		12/4/24 1:35
13C8-PFOA	101	40-130		12/4/24 1:35
13C9-PFNA	98.1	40-130		12/4/24 1:35
13C6-PFDA	109	40-130		12/4/24 1:35
13C7-PFUnA	103	40-130		12/4/24 1:35
13C2-PFDoA	105	40-130		12/4/24 1:35
13C2-PFTeDA	111	20-130		12/4/24 1:35
13C3-PFBS	98.9	40-135		12/4/24 1:35
13C3-PFHxS	98.4	40-130		12/4/24 1:35
13C8-PFOS	99.1	40-130		12/4/24 1:35
13C2-4:2FTS	120	40-165		12/4/24 1:35
13C2-6:2FTS	126	40-215		12/4/24 1:35
13C2-8:2FTS	147	40-275		12/4/24 1:35
13C8-PFOSA	83.5	40-130		12/4/24 1:35
D3-NMeFOSA	84.5	10-130		12/4/24 1:35
D5-NEtFOSA	78.3	10-130		12/4/24 1:35
D3-NMeFOSAA	87.7	40-135		12/4/24 1:35
D5-NEtFOSAA	99.8	40-150		12/4/24 1:35
D7-NMeFOSE	89.9	20-130		12/4/24 1:35
D9-NEtFOSE	88.1	15-130		12/4/24 1:35
13C3-HFPO-DA	105	40-130		12/4/24 1:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.073	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
gamma-Chlordane [1]	ND	0.073	0.032	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Aldrin [1]	ND	0.073	0.0071	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
alpha-BHC [1]	ND	0.073	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
beta-BHC [1]	ND	0.073	0.039	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
delta-BHC [1]	ND	0.073	0.038	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.010	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
4,4'-DDD [1]	ND	0.058	0.012	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
4,4'-DDE [2]	ND	0.058	0.0094	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
4,4'-DDT [1]	ND	0.058	0.0075	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Dieldrin [1]	ND	0.058	0.0069	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endosulfan I [1]	ND	0.073	0.035	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endosulfan II [1]	ND	0.12	0.031	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endosulfan sulfate [1]	ND	0.12	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endrin [1]	ND	0.12	0.037	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Endrin aldehyde [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 23:34	TG
Endrin ketone [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Heptachlor [1]	ND	0.073	0.0080	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Heptachlor epoxide [1]	ND	0.073	0.0084	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Methoxychlor [1]	ND	0.73	0.086	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG
Toxaphene [1]	ND	1.5	0.61	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.8	30-150		11/23/24 23:34
Decachlorobiphenyl [1]	86.5	30-150		11/26/24 4:30
Decachlorobiphenyl [2]	86.4	30-150		11/26/24 4:30
Decachlorobiphenyl [2]	87.8	30-150		11/23/24 23:34
Tetrachloro-m-xylene [1]	76.5	30-150		11/23/24 23:34
Tetrachloro-m-xylene [1]	86.3	30-150		11/26/24 4:30
Tetrachloro-m-xylene [2]	108	30-150		11/23/24 23:34
Tetrachloro-m-xylene [2]	77.9	30-150		11/26/24 4:30

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.030	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1221 [1]	ND	0.12	0.056	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1232 [1]	ND	0.12	0.030	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1242 [1]	ND	0.12	0.033	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1248 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1254 [2]	ND	0.12	0.046	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1260 [1]	ND	0.12	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1262 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW
Aroclor-1268 [1]	ND	0.12	0.032	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:35	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.0	30-150		11/17/24 18:35
Decachlorobiphenyl [2]	59.2	30-150		11/17/24 18:35
Tetrachloro-m-xylene [1]	66.9	30-150		11/17/24 18:35
Tetrachloro-m-xylene [2]	68.5	30-150		11/17/24 18:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4600	24	7.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Antimony	ND	2.4	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Arsenic	5.2	4.7	0.67	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Barium	19	2.4	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Beryllium	0.28	0.24	0.072	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Cadmium	ND	0.47	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Calcium	1500	24	12	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Chromium	15	0.95	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Cobalt	2.6	2.4	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Copper	38	1.9	1.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Iron	9100	24	11	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Lead	57	0.71	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Magnesium	2600	24	5.5	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Manganese	110	0.47	0.27	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Mercury	0.11	0.038	0.017	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:17	MJH
Nickel	7.3	0.95	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Potassium	1100	240	59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:44	HNN
Selenium	ND	4.7	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Silver	ND	0.47	0.29	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Sodium	4700	240	70	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Thallium	ND	2.4	0.76	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Vanadium	17	0.95	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN
Zinc	77	0.95	0.83	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:36	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (0.5-1) 102924 | Sampled: 10/29/2024 16:35

Sample ID: 24K0186-13

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.2			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.68	0.51	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.2	0.21	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Amyl Alcohol (TAA)	ND	2.1	0.13	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.21	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.052	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Benzene	0.69	0.10	0.015	mg/Kg dry	1	V-06	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromochloromethane	ND	0.10	0.034	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromodichloromethane	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromoform	ND	0.10	0.031	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Bromomethane	ND	0.21	0.16	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
2-Butanone (MEK)	ND	2.1	0.15	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Butyl Alcohol (TBA)	ND	2.1	0.36	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
n-Butylbenzene	0.082	0.10	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
sec-Butylbenzene	0.040	0.10	0.017	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Butylbenzene	0.13	0.10	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.052	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Carbon Disulfide	ND	0.52	0.16	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Carbon Tetrachloride	ND	0.10	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chlorobenzene	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chlorodibromomethane	ND	0.052	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chloroethane	ND	0.21	0.048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chloroform	ND	0.21	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Chloromethane	ND	0.21	0.052	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Cyclohexane	ND	0.21	0.19	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.52	0.066	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dibromoethane (EDB)	ND	0.052	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dichlorobenzene	0.030	0.10	0.018	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,3-Dichlorobenzene	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,4-Dichlorobenzene	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.21	0.021	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1-Dichloroethane	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dichloroethane	ND	0.10	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1-Dichloroethylene	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
cis-1,2-Dichloroethylene	ND	0.10	0.021	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
trans-1,2-Dichloroethylene	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2-Dichloropropane	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
cis-1,3-Dichloropropene	ND	0.052	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
trans-1,3-Dichloropropene	ND	0.052	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Diisopropyl Ether (DIPE)	ND	0.052	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Ethanol	ND	21	2.1	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Ethylbenzene	0.41	0.10	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
2-Hexanone (MBK)	ND	1.0	0.14	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Isopropylbenzene (Cumene)	0.075	0.10	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Methyl Acetate	0.43	1.0	0.050	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Methyl Cyclohexane	ND	0.10	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Methylene Chloride	ND	0.52	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.14	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Naphthalene	0.19	0.21	0.026	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
n-Propylbenzene	0.27	0.10	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Styrene	ND	0.10	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,2,2-Tetrachloroethane	ND	0.052	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Tetrachloroethylene	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Toluene	0.081	0.10	0.012	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,3-Trichlorobenzene	ND	0.52	0.023	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,4-Trichlorobenzene	ND	0.10	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,1-Trichloroethane	ND	0.10	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,2-Trichloroethane	ND	0.10	0.019	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Trichloroethylene	ND	0.10	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Trichlorofluoromethane (Freon 11)	ND	0.21	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,3-Trichloropropane	ND	0.21	0.028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,2,4-Trimethylbenzene	0.21	0.10	0.016	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
1,3,5-Trimethylbenzene	ND	0.10	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Vinyl Chloride	ND	0.21	0.020	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
m+p Xylene	0.23	0.21	0.026	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH
o-Xylene	0.019	0.10	0.016	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:43	EEH
Xylenes (total)	0.23	0.10	0.10	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		11/6/24 18:43
Toluene-d8	98.8	70-130		11/6/24 18:43
4-Bromofluorobenzene	111	70-130		11/6/24 18:43

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	2.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Atrazine	ND	2.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzaldehyde	ND	1.0	0.16	mg/Kg dry	2	V-05	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Biphenyl	ND	2.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Caprolactam	ND	1.0	0.17	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Acenaphthene	ND	0.51	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Acenaphthylene	ND	0.51	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Acetophenone	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Aniline	ND	1.0	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Anthracene	0.13	0.51	0.089	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(a)anthracene	0.51	0.51	0.082	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(a)pyrene	0.87	0.51	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(b)fluoranthene	1.1	0.51	0.081	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(g,h,i)perylene	0.52	0.51	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Benzo(k)fluoranthene	0.41	0.51	0.091	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Bis(2-chloroethoxy)methane	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Bis(2-chloroethyl)ether	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,2'-oxybis(1-Chloropropane)	ND	1.0	0.64	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Bis(2-Ethylhexyl)phthalate	0.46	1.0	0.12	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Bromophenylphenylether	ND	1.0	0.092	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Butylbenzylphthalate	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Carbazole	ND	0.51	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Chloroaniline	ND	2.0	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Chloro-3-methylphenol	ND	2.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Chloronaphthalene	ND	1.0	0.088	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Chlorophenol	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Chlorophenylphenylether	ND	1.0	0.084	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Chrysene	0.55	0.51	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Dibenz(a,h)anthracene	0.14	0.51	0.14	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Dibenzofuran	ND	1.0	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Di-n-butylphthalate	ND	1.0	0.38	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
3,3-Dichlorobenzidine	ND	0.51	0.22	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dichlorophenol	ND	1.0	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Diethylphthalate	ND	1.0	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dimethylphenol	ND	1.0	0.23	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Dimethylphthalate	ND	1.0	0.095	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4,6-Dinitro-2-methylphenol	ND	1.0	0.80	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dinitrophenol	ND	2.0	0.78	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4-Dinitrotoluene	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,6-Dinitrotoluene	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Di-n-octylphthalate	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Fluoranthene	1.1	0.51	0.083	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Fluorene	ND	0.51	0.090	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Hexachlorobenzene	ND	1.0	0.097	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	1.0	0.091	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Hexachlorocyclopentadiene	ND	1.0	0.66	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Hexachloroethane	ND	1.0	0.093	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Indeno(1,2,3-cd)pyrene	0.58	0.51	0.16	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Isophorone	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
1-Methylnaphthalene	ND	0.51	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Methylnaphthalene	ND	0.51	0.086	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Methylphenol	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
3/4-Methylphenol	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Naphthalene	ND	0.51	0.18	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Nitroaniline	ND	1.0	0.12	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
3-Nitroaniline	ND	1.0	0.21	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Nitroaniline	ND	1.0	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Nitrobenzene	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2-Nitrophenol	ND	1.0	0.098	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
4-Nitrophenol	ND	2.0	0.27	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
N-Nitrosodi-n-propylamine	ND	1.0	0.14	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Pentachlorophenol	ND	1.0	0.36	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Phenanthrene	0.34	0.51	0.090	mg/Kg dry	2	J	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Phenol	ND	1.0	0.13	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Pyrene	1.6	0.51	0.11	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
Pyridine	ND	1.0	0.12	mg/Kg dry	2	L-04, V-34	SW-846 8270E	11/10/24	11/12/24 12:12	KMC
1,2,4,5-Tetrachlorobenzene	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4,5-Trichlorophenol	ND	1.0	0.10	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC
2,4,6-Trichlorophenol	ND	1.0	0.096	mg/Kg dry	2		SW-846 8270E	11/10/24	11/12/24 12:12	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.3	30-130		11/12/24 12:12
Phenol-d6	84.6	30-130		11/12/24 12:12
Nitrobenzene-d5	85.1	30-130		11/12/24 12:12
2-Fluorobiphenyl	74.7	30-130		11/12/24 12:12
2,4,6-Tribromophenol	95.4	30-130		11/12/24 12:12
p-Terphenyl-d14	84.5	30-130		11/12/24 12:12

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.075	0.059	mg/Kg dry	1		SW-846 8270E	11/11/24	11/15/24 21:28	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	39.2	15-110		11/15/24 21:28

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorotridecanoic acid (PFTrDA)	0.12	0.20	0.062	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorotetradecanoic acid (PFTeDA)	0.072	0.20	0.066	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorooctanesulfonic acid (PFOS)	0.16	0.20	0.059	µg/kg dry	1	J	Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-EtFOSAA (NEtFOSAA)	0.23	0.20	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:44	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.0	8-130		12/4/24 1:44
13C5-PFPeA	92.8	35-130		12/4/24 1:44
13C5-PFHxA	95.9	40-130		12/4/24 1:44
13C4-PFHpA	93.0	40-130		12/4/24 1:44
13C8-PFOA	89.0	40-130		12/4/24 1:44
13C9-PFNA	92.4	40-130		12/4/24 1:44
13C6-PFDA	96.9	40-130		12/4/24 1:44
13C7-PFUnA	95.3	40-130		12/4/24 1:44
13C2-PFDoA	96.7	40-130		12/4/24 1:44
13C2-PFTeDA	91.2	20-130		12/4/24 1:44
13C3-PFBS	90.5	40-135		12/4/24 1:44
13C3-PFHxS	90.4	40-130		12/4/24 1:44
13C8-PFOS	92.4	40-130		12/4/24 1:44
13C2-4:2FTS	102	40-165		12/4/24 1:44
13C2-6:2FTS	87.1	40-215		12/4/24 1:44
13C2-8:2FTS	116	40-275		12/4/24 1:44
13C8-PFOSA	80.7	40-130		12/4/24 1:44
D3-NMeFOSA	76.0	10-130		12/4/24 1:44
D5-NEtFOSA	71.5	10-130		12/4/24 1:44
D3-NMeFOSAA	78.1	40-135		12/4/24 1:44
D5-NEtFOSAA	83.3	40-150		12/4/24 1:44
D7-NMeFOSE	88.8	20-130		12/4/24 1:44
D9-NEtFOSE	85.1	15-130		12/4/24 1:44
13C3-HFPO-DA	101	40-130		12/4/24 1:44

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.071	0.027	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
gamma-Chlordane [1]	ND	0.071	0.031	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Aldrin [1]	ND	0.071	0.0070	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
alpha-BHC [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
beta-BHC [1]	ND	0.071	0.038	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
delta-BHC [1]	ND	0.071	0.038	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0099	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
4,4'-DDD [1]	0.25	0.057	0.012	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
4,4'-DDE [2]	0.050	0.057	0.0093	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 4:58	TG
4,4'-DDT [1]	0.032	0.057	0.0073	mg/Kg dry	10	J	SW-846 8081B	11/11/24	11/26/24 4:58	TG
Dieldrin [1]	ND	0.057	0.0068	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endosulfan I [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endosulfan II [1]	ND	0.11	0.031	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endosulfan sulfate [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endrin [1]	ND	0.11	0.036	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Endrin aldehyde [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	11/11/24	11/23/24 23:46	TG
Endrin ketone [1]	ND	0.11	0.029	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Heptachlor [1]	ND	0.071	0.0078	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Heptachlor epoxide [1]	ND	0.071	0.0083	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Methoxychlor [1]	ND	0.71	0.085	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG
Toxaphene [1]	ND	1.4	0.60	mg/Kg dry	10		SW-846 8081B	11/11/24	11/26/24 4:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		11/23/24 23:46
Decachlorobiphenyl [1]	75.4	30-150		11/26/24 4:58
Decachlorobiphenyl [2]	75.9	30-150		11/26/24 4:58
Decachlorobiphenyl [2]	81.3	30-150		11/23/24 23:46
Tetrachloro-m-xylene [1]	63.3	30-150		11/23/24 23:46
Tetrachloro-m-xylene [1]	69.3	30-150		11/26/24 4:58
Tetrachloro-m-xylene [2]	57.2	30-150		11/26/24 4:58
Tetrachloro-m-xylene [2]	69.4	30-150		11/23/24 23:46

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1221 [1]	ND	0.12	0.055	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1232 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1242 [1]	ND	0.12	0.033	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1248 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1254 [1]	0.25	0.12	0.036	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1260 [2]	0.14	0.12	0.032	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1262 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW
Aroclor-1268 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 18:54	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		11/17/24 18:54
Decachlorobiphenyl [2]	57.8	30-150		11/17/24 18:54
Tetrachloro-m-xylene [1]	61.9	30-150		11/17/24 18:54
Tetrachloro-m-xylene [2]	68.5	30-150		11/17/24 18:54

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	25	7.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Antimony	ND	2.5	0.65	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Arsenic	8.1	4.9	0.69	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Barium	47	2.5	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Beryllium	0.32	0.25	0.075	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Cadmium	0.70	0.49	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Calcium	3000	25	13	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Chromium	19	0.98	0.62	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Cobalt	3.2	2.5	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Copper	57	2.0	1.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Iron	13000	25	11	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Lead	270	0.74	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Magnesium	3400	25	5.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Manganese	170	0.49	0.28	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Mercury	0.37	0.038	0.017	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:19	MJH
Nickel	9.1	0.98	0.68	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Potassium	1000	250	61	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 21:52	HNN
Selenium	ND	4.9	1.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Silver	0.41	0.49	0.30	mg/Kg dry	1	J	SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Sodium	4300	250	73	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Thallium	ND	2.5	0.78	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Vanadium	20	0.98	0.54	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN
Zinc	140	0.98	0.86	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:43	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-1 (1-2) 102924 | Sampled: 10/29/2024 16:40

Sample ID: 24K0186-14

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.4			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.67	0.50	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.4	0.098	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Amyl Alcohol (TAA)	ND	0.96	0.061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.096	0.0078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.024	0.0073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Benzene	0.012	0.048	0.0069	mg/Kg dry	1	V-06, J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromochloromethane	ND	0.048	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromodichloromethane	ND	0.048	0.0089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromoform	ND	0.048	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Bromomethane	ND	0.096	0.071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
2-Butanone (MEK)	0.078	0.96	0.068	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Butyl Alcohol (TBA)	ND	0.96	0.16	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
n-Butylbenzene	ND	0.048	0.0074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
sec-Butylbenzene	ND	0.048	0.0078	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Butylbenzene	ND	0.048	0.0079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.024	0.0076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Carbon Disulfide	1.3	0.24	0.073	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Carbon Tetrachloride	ND	0.048	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chlorobenzene	ND	0.048	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chlorodibromomethane	ND	0.024	0.0061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chloroethane	ND	0.096	0.022	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chloroform	ND	0.096	0.0091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Chloromethane	ND	0.096	0.024	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Cyclohexane	ND	0.096	0.085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.24	0.030	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dibromoethane (EDB)	ND	0.024	0.0060	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dichlorobenzene	ND	0.048	0.0084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,3-Dichlorobenzene	ND	0.048	0.0074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,4-Dichlorobenzene	ND	0.048	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.096	0.0096	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1-Dichloroethane	ND	0.048	0.0072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dichloroethane	ND	0.048	0.0061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1-Dichloroethylene	ND	0.048	0.0086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
cis-1,2-Dichloroethylene	ND	0.048	0.0097	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
trans-1,2-Dichloroethylene	ND	0.048	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2-Dichloropropane	ND	0.048	0.0081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
cis-1,3-Dichloropropene	ND	0.024	0.0061	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
trans-1,3-Dichloropropene	ND	0.024	0.0069	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Diisopropyl Ether (DIPE)	ND	0.024	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Ethanol	ND	9.6	0.97	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Ethylbenzene	ND	0.048	0.0065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
2-Hexanone (MBK)	ND	0.48	0.065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Isopropylbenzene (Cumene)	ND	0.048	0.0074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.048	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Methyl Acetate	0.12	0.48	0.023	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.048	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Methyl Cyclohexane	ND	0.048	0.0064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Methylene Chloride	ND	0.24	0.0091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.48	0.065	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Naphthalene	0.016	0.096	0.012	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
n-Propylbenzene	ND	0.048	0.0053	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Styrene	ND	0.048	0.0062	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,2,2-Tetrachloroethane	ND	0.024	0.0049	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Tetrachloroethylene	ND	0.048	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Toluene	0.016	0.048	0.0055	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,3-Trichlorobenzene	ND	0.24	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,4-Trichlorobenzene	ND	0.048	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,1-Trichloroethane	ND	0.048	0.0067	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,2-Trichloroethane	ND	0.048	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Trichloroethylene	ND	0.048	0.0079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Trichlorofluoromethane (Freon 11)	ND	0.096	0.0068	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,3-Trichloropropane	ND	0.096	0.013	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.048	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,2,4-Trimethylbenzene	ND	0.048	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
1,3,5-Trimethylbenzene	ND	0.048	0.0081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Vinyl Chloride	ND	0.096	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
m+p Xylene	ND	0.096	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
o-Xylene	ND	0.048	0.0074	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH
Xylenes (total)	ND	0.048	0.048	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 17:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.5	70-130		11/6/24 17:52
Toluene-d8	97.4	70-130		11/6/24 17:52
4-Bromofluorobenzene	106	70-130		11/6/24 17:52

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.75	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Atrazine	ND	0.75	0.049	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzaldehyde	ND	0.38	0.061	mg/Kg dry	1	V-05	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Biphenyl	ND	0.75	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Caprolactam	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Acenaphthene	ND	0.19	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Acenaphthylene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Acetophenone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Aniline	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Anthracene	0.081	0.19	0.033	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(a)anthracene	0.096	0.19	0.031	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(a)pyrene	0.12	0.19	0.034	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(b)fluoranthene	0.16	0.19	0.031	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(g,h,i)perylene	0.071	0.19	0.054	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Benzo(k)fluoranthene	0.063	0.19	0.034	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Bis(2-chloroethoxy)methane	ND	0.38	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Bis(2-chloroethyl)ether	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Bromophenylphenylether	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Butylbenzylphthalate	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Carbazole	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Chloroaniline	ND	0.74	0.067	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Chloro-3-methylphenol	ND	0.74	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Chloronaphthalene	ND	0.38	0.033	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Chlorophenol	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Chlorophenylphenylether	ND	0.38	0.031	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Chrysene	0.11	0.19	0.034	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Dibenz(a,h)anthracene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Dibenzofuran	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Di-n-butylphthalate	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
3,3-Dichlorobenzidine	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Diethylphthalate	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dimethylphenol	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Dimethylphthalate	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4,6-Dinitro-2-methylphenol	ND	0.38	0.30	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dinitrophenol	ND	0.74	0.29	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4-Dinitrotoluene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,6-Dinitrotoluene	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Di-n-octylphthalate	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Fluoranthene	0.21	0.19	0.031	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Fluorene	ND	0.19	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Hexachlorobenzene	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.38	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Hexachloroethane	ND	0.38	0.035	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Indeno(1,2,3-cd)pyrene	0.073	0.19	0.062	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Isophorone	ND	0.38	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
1-Methylnaphthalene	ND	0.19	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Methylnaphthalene	ND	0.19	0.032	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Methylphenol	ND	0.38	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
3/4-Methylphenol	ND	0.38	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Naphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Nitroaniline	ND	0.38	0.046	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
3-Nitroaniline	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Nitroaniline	ND	0.38	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Nitrobenzene	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2-Nitrophenol	ND	0.38	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
4-Nitrophenol	ND	0.74	0.10	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
N-Nitrosodi-n-propylamine	ND	0.38	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Pentachlorophenol	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Phenanthrene	0.065	0.19	0.034	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Phenol	ND	0.38	0.048	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Pyrene	0.35	0.19	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
Pyridine	ND	0.38	0.044	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/10/24	11/12/24 12:36	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4,5-Trichlorophenol	ND	0.38	0.039	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC
2,4,6-Trichlorophenol	ND	0.38	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 12:36	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	69.1	30-130		11/12/24 12:36
Phenol-d6	79.9	30-130		11/12/24 12:36
Nitrobenzene-d5	79.5	30-130		11/12/24 12:36
2-Fluorobiphenyl	76.0	30-130		11/12/24 12:36
2,4,6-Tribromophenol	97.9	30-130		11/12/24 12:36
p-Terphenyl-d14	86.2	30-130		11/12/24 12:36

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	11/11/24	11/18/24 11:55	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	41.7	15-110					11/18/24 11:55	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.069	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.082	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.067	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.075	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.060	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.050	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.064	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.057	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.37	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.055	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.089	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.091	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.64	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.71	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.99	0.49	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	5.0	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	5.0	1.6	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.092	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 1:53	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	83.3	8-130		12/4/24 1:53
13C5-PFPeA	109	35-130		12/4/24 1:53
13C5-PFHxA	112	40-130		12/4/24 1:53
13C4-PFHpA	111	40-130		12/4/24 1:53
13C8-PFOA	109	40-130		12/4/24 1:53
13C9-PFNA	110	40-130		12/4/24 1:53
13C6-PFDA	110	40-130		12/4/24 1:53
13C7-PFUnA	114	40-130		12/4/24 1:53
13C2-PFDoA	116	40-130		12/4/24 1:53
13C2-PFTeDA	115	20-130		12/4/24 1:53
13C3-PFBS	111	40-135		12/4/24 1:53
13C3-PFHxS	107	40-130		12/4/24 1:53
13C8-PFOS	107	40-130		12/4/24 1:53
13C2-4:2FTS	113	40-165		12/4/24 1:53
13C2-6:2FTS	97.4	40-215		12/4/24 1:53
13C2-8:2FTS	119	40-275		12/4/24 1:53
13C8-PFOSA	98.2	40-130		12/4/24 1:53
D3-NMeFOSA	90.5	10-130		12/4/24 1:53
D5-NEtFOSA	94.4	10-130		12/4/24 1:53
D3-NMeFOSAA	102	40-135		12/4/24 1:53
D5-NEtFOSAA	107	40-150		12/4/24 1:53
D7-NMeFOSE	113	20-130		12/4/24 1:53
D9-NEtFOSE	102	15-130		12/4/24 1:53
13C3-HFPO-DA	113	40-130		12/4/24 1:53

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.027	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
gamma-Chlordane [1]	ND	0.027	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Aldrin [1]	ND	0.027	0.0027	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
alpha-BHC [1]	ND	0.027	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
beta-BHC [1]	ND	0.027	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
delta-BHC [1]	ND	0.027	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
gamma-BHC (Lindane) [1]	ND	0.011	0.0038	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
4,4'-DDD [1]	0.0058	0.022	0.0046	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:26	TG
4,4'-DDE [2]	0.0096	0.022	0.0035	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:26	TG
4,4'-DDT [1]	ND	0.022	0.0028	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Dieldrin [1]	ND	0.022	0.0026	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endosulfan I [1]	ND	0.027	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endosulfan II [1]	ND	0.044	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endosulfan sulfate [1]	ND	0.044	0.010	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endrin [1]	ND	0.044	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Endrin aldehyde [1]	ND	0.044	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/23/24 23:58	TG
Endrin ketone [1]	ND	0.044	0.011	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Heptachlor [1]	ND	0.027	0.0030	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Heptachlor epoxide [1]	ND	0.027	0.0032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Methoxychlor [1]	ND	0.27	0.032	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG
Toxaphene [1]	ND	0.54	0.23	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.4	30-150		11/26/24 5:26
Decachlorobiphenyl [1]	85.7	30-150		11/23/24 23:58
Decachlorobiphenyl [2]	82.3	30-150		11/23/24 23:58
Decachlorobiphenyl [2]	77.4	30-150		11/26/24 5:26
Tetrachloro-m-xylene [1]	71.0	30-150		11/23/24 23:58
Tetrachloro-m-xylene [1]	70.9	30-150		11/26/24 5:26
Tetrachloro-m-xylene [2]	79.3	30-150		11/23/24 23:58
Tetrachloro-m-xylene [2]	60.7	30-150		11/26/24 5:26

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1221 [1]	ND	0.090	0.042	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1232 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1242 [1]	ND	0.090	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1248 [1]	ND	0.090	0.022	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1254 [1]	ND	0.090	0.027	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1260 [1]	ND	0.090	0.019	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1262 [1]	ND	0.090	0.023	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW
Aroclor-1268 [1]	ND	0.090	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:11	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		11/17/24 19:11
Decachlorobiphenyl [2]	75.5	30-150		11/17/24 19:11
Tetrachloro-m-xylene [1]	72.6	30-150		11/17/24 19:11
Tetrachloro-m-xylene [2]	74.4	30-150		11/17/24 19:11

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924
Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5800	19	5.9	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Antimony	ND	1.9	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Arsenic	5.5	3.7	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Barium	21	1.9	0.40	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Beryllium	0.30	0.19	0.057	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Cadmium	ND	0.37	0.18	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Calcium	920	19	9.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Chromium	9.6	0.75	0.47	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Cobalt	3.2	1.9	0.32	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Copper	12	1.5	1.3	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Iron	8000	19	8.7	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Lead	26	0.56	0.39	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Magnesium	1700	19	4.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Manganese	70	0.37	0.21	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Mercury	0.086	0.029	0.013	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:21	MJH
Nickel	5.9	0.75	0.52	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Potassium	670	190	46	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 22:00	HNN
Selenium	ND	3.7	0.93	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Silver	ND	0.37	0.23	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Sodium	1800	190	56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Thallium	ND	1.9	0.60	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Vanadium	12	0.75	0.41	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN
Zinc	28	0.75	0.66	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:51	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (0.5-1) 102924 | Sampled: 10/29/2024 16:25

Sample ID: 24K0186-15

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.56	0.42	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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

Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.8	0.11	mg/Kg dry	1	V-05	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Amyl Alcohol (TAA)	ND	1.1	0.072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.11	0.0091	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.028	0.0085	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Benzene	0.16	0.056	0.0081	mg/Kg dry	1	V-06	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromochloromethane	ND	0.056	0.018	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromodichloromethane	ND	0.056	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromoform	ND	0.056	0.017	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Bromomethane	ND	0.11	0.083	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
2-Butanone (MEK)	0.11	1.1	0.079	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Butyl Alcohol (TBA)	ND	1.1	0.19	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
n-Butylbenzene	ND	0.056	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
sec-Butylbenzene	ND	0.056	0.0092	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Butylbenzene	0.016	0.056	0.0093	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.028	0.0089	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Carbon Disulfide	ND	0.28	0.086	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Carbon Tetrachloride	ND	0.056	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chlorobenzene	ND	0.056	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chlorodibromomethane	ND	0.028	0.0072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chloroethane	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chloroform	ND	0.11	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Chloromethane	ND	0.11	0.028	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Cyclohexane	ND	0.11	0.099	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.28	0.035	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dibromoethane (EDB)	ND	0.028	0.0070	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dichlorobenzene	ND	0.056	0.0098	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,3-Dichlorobenzene	ND	0.056	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,4-Dichlorobenzene	ND	0.056	0.0094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.11	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1-Dichloroethane	ND	0.056	0.0084	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dichloroethane	ND	0.056	0.0071	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1-Dichloroethylene	ND	0.056	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
cis-1,2-Dichloroethylene	ND	0.056	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
trans-1,2-Dichloroethylene	ND	0.056	0.0088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2-Dichloropropane	ND	0.056	0.0095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
cis-1,3-Dichloropropene	ND	0.028	0.0072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
trans-1,3-Dichloropropene	ND	0.028	0.0081	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Diisopropyl Ether (DIPE)	ND	0.028	0.0094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Ethanol	ND	11	1.1	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Ethylbenzene	0.021	0.056	0.0077	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
2-Hexanone (MBK)	ND	0.56	0.076	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Isopropylbenzene (Cumene)	0.0095	0.056	0.0087	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.056	0.0088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Methyl Acetate	0.22	0.56	0.027	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH

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Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.056	0.0094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Methyl Cyclohexane	ND	0.056	0.0075	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Methylene Chloride	ND	0.28	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.56	0.077	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Naphthalene	ND	0.11	0.014	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
n-Propylbenzene	0.0079	0.056	0.0062	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Styrene	ND	0.056	0.0072	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.028	0.0057	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Tetrachloroethylene	ND	0.056	0.0094	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Toluene	0.076	0.056	0.0064	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,3-Trichlorobenzene	ND	0.28	0.012	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,4-Trichlorobenzene	ND	0.056	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,1-Trichloroethane	ND	0.056	0.0079	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,2-Trichloroethane	ND	0.056	0.010	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Trichloroethylene	ND	0.056	0.0093	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Trichlorofluoromethane (Freon 11)	ND	0.11	0.0080	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,3-Trichloropropane	ND	0.11	0.015	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.056	0.0088	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,2,4-Trimethylbenzene	ND	0.056	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
1,3,5-Trimethylbenzene	ND	0.056	0.0095	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Vinyl Chloride	ND	0.11	0.011	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
m+p Xylene	0.027	0.11	0.014	mg/Kg dry	1	J	SW-846 8260D	11/5/24	11/6/24 18:17	EEH
o-Xylene	ND	0.056	0.0087	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH
Xylenes (total)	ND	0.056	0.056	mg/Kg dry	1		SW-846 8260D	11/5/24	11/6/24 18:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.6	70-130		11/6/24 18:17
Toluene-d8	100	70-130		11/6/24 18:17
4-Bromofluorobenzene	101	70-130		11/6/24 18:17

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Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.83	0.057	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Atrazine	ND	0.83	0.054	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzaldehyde	ND	0.42	0.067	mg/Kg dry	1	V-05	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Biphenyl	ND	0.83	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Caprolactam	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Acenaphthene	ND	0.21	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Acenaphthylene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Acetophenone	ND	0.42	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Aniline	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Anthracene	0.36	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(a)anthracene	0.36	0.21	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(a)pyrene	0.36	0.21	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(b)fluoranthene	0.46	0.21	0.034	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(g,h,i)perylene	0.18	0.21	0.060	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Benzo(k)fluoranthene	0.18	0.21	0.038	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Bis(2-chloroethoxy)methane	ND	0.42	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Bis(2-chloroethyl)ether	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,2'-oxybis(1-Chloropropane)	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.050	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Bromophenylphenylether	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Butylbenzylphthalate	ND	0.42	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Carbazole	ND	0.21	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Chloroaniline	ND	0.82	0.075	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Chloro-3-methylphenol	ND	0.82	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Chloronaphthalene	ND	0.42	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Chlorophenol	ND	0.42	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Chlorophenylphenylether	ND	0.42	0.035	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Chrysene	0.42	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Dibenz(a,h)anthracene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Dibenzofuran	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Di-n-butylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
3,3-Dichlorobenzidine	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dichlorophenol	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Diethylphthalate	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dimethylphenol	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Dimethylphthalate	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4,6-Dinitro-2-methylphenol	ND	0.42	0.33	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dinitrophenol	ND	0.82	0.32	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4-Dinitrotoluene	ND	0.42	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,6-Dinitrotoluene	ND	0.42	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Di-n-octylphthalate	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Fluoranthene	0.76	0.21	0.035	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Fluorene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Hexachlorobenzene	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC

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Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.42	0.038	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Hexachloroethane	ND	0.42	0.039	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Indeno(1,2,3-cd)pyrene	0.19	0.21	0.068	mg/Kg dry	1	J	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Isophorone	ND	0.42	0.045	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
1-Methylnaphthalene	ND	0.21	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Methylnaphthalene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Methylphenol	ND	0.42	0.056	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
3/4-Methylphenol	ND	0.42	0.055	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Naphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Nitroaniline	ND	0.42	0.051	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
3-Nitroaniline	ND	0.42	0.088	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Nitroaniline	ND	0.42	0.047	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Nitrobenzene	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2-Nitrophenol	ND	0.42	0.041	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
4-Nitrophenol	ND	0.82	0.11	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
N-Nitrosodi-n-propylamine	ND	0.42	0.059	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Pentachlorophenol	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Phenanthrene	0.32	0.21	0.037	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Phenol	ND	0.42	0.053	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Pyrene	1.1	0.21	0.044	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
Pyridine	ND	0.42	0.049	mg/Kg dry	1	L-04, V-34	SW-846 8270E	11/10/24	11/12/24 13:01	KMC
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.042	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4,5-Trichlorophenol	ND	0.42	0.043	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC
2,4,6-Trichlorophenol	ND	0.42	0.040	mg/Kg dry	1		SW-846 8270E	11/10/24	11/12/24 13:01	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	66.0	30-130		11/12/24 13:01
Phenol-d6	76.9	30-130		11/12/24 13:01
Nitrobenzene-d5	79.1	30-130		11/12/24 13:01
2-Fluorobiphenyl	73.7	30-130		11/12/24 13:01
2,4,6-Tribromophenol	90.3	30-130		11/12/24 13:01
p-Terphenyl-d14	80.1	30-130		11/12/24 13:01

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.063	0.050	mg/Kg dry	1		SW-846 8270E	11/11/24	11/18/24 12:14	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	38.0	15-110					11/18/24 12:14	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.27	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorohexanoic acid (PFHxA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorooctanoic acid (PFOA)	ND	0.20	0.068	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorononanoic acid (PFNA)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorodecanoic acid (PFDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.081	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.073	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.062	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.066	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorobutanesulfonic acid (PFBS)	0.46	0.20	0.062	µg/kg dry	1	PF-23	Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.074	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.059	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.049	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.063	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.056	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.29	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.28	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.36	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.080	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.054	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.088	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.63	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.70	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.33	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.31	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.23	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.26	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	0.48	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	1.5	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.14	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.090	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.12	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.24	µg/kg dry	1		Draft Method 1633	11/27/24	12/4/24 2:02	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	91.5	8-130		12/4/24 2:02
13C5-PFPeA	96.4	35-130		12/4/24 2:02
13C5-PFHxA	96.7	40-130		12/4/24 2:02
13C4-PFHpA	98.4	40-130		12/4/24 2:02
13C8-PFOA	101	40-130		12/4/24 2:02
13C9-PFNA	95.5	40-130		12/4/24 2:02
13C6-PFDA	98.5	40-130		12/4/24 2:02
13C7-PFUnA	98.9	40-130		12/4/24 2:02
13C2-PFDoA	101	40-130		12/4/24 2:02
13C2-PFTeDA	108	20-130		12/4/24 2:02
13C3-PFBS	96.6	40-135		12/4/24 2:02
13C3-PFHxS	96.2	40-130		12/4/24 2:02
13C8-PFOS	103	40-130		12/4/24 2:02
13C2-4:2FTS	88.4	40-165		12/4/24 2:02
13C2-6:2FTS	83.6	40-215		12/4/24 2:02
13C2-8:2FTS	105	40-275		12/4/24 2:02
13C8-PFOSA	84.1	40-130		12/4/24 2:02
D3-NMeFOSA	84.2	10-130		12/4/24 2:02
D5-NEtFOSA	81.3	10-130		12/4/24 2:02
D3-NMeFOSAA	88.4	40-135		12/4/24 2:02
D5-NEtFOSAA	95.6	40-150		12/4/24 2:02
D7-NMeFOSE	92.2	20-130		12/4/24 2:02
D9-NEtFOSE	89.8	15-130		12/4/24 2:02
13C3-HFPO-DA	102	40-130		12/4/24 2:02

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.031	0.014	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
gamma-Chlordane [1]	ND	0.031	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Aldrin [1]	ND	0.031	0.0030	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
alpha-BHC [1]	ND	0.031	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
beta-BHC [1]	ND	0.031	0.016	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
delta-BHC [1]	ND	0.031	0.016	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
gamma-BHC (Lindane) [1]	ND	0.012	0.0043	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
4,4'-DDD [1]	0.012	0.025	0.0052	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:54	TG
4,4'-DDE [1]	0.0097	0.025	0.0027	mg/Kg dry	5	J	SW-846 8081B	11/11/24	11/26/24 5:54	TG
4,4'-DDT [2]	ND	0.025	0.0035	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Dieldrin [1]	ND	0.025	0.0029	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endosulfan I [1]	ND	0.031	0.015	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endosulfan II [1]	ND	0.049	0.013	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endosulfan sulfate [1]	ND	0.049	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endrin [1]	ND	0.049	0.016	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Endrin aldehyde [1]	ND	0.049	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/24/24 0:10	TG
Endrin ketone [1]	ND	0.049	0.012	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Heptachlor [1]	ND	0.031	0.0034	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Heptachlor epoxide [1]	ND	0.031	0.0036	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Methoxychlor [1]	ND	0.31	0.037	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG
Toxaphene [1]	ND	0.62	0.26	mg/Kg dry	5		SW-846 8081B	11/11/24	11/26/24 5:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.1	30-150		11/24/24 0:10
Decachlorobiphenyl [1]	77.0	30-150		11/26/24 5:54
Decachlorobiphenyl [2]	88.9	30-150		11/24/24 0:10
Decachlorobiphenyl [2]	77.5	30-150		11/26/24 5:54
Tetrachloro-m-xylene [1]	66.5	30-150		11/26/24 5:54
Tetrachloro-m-xylene [1]	66.9	30-150		11/24/24 0:10
Tetrachloro-m-xylene [2]	55.5	30-150		11/26/24 5:54
Tetrachloro-m-xylene [2]	72.3	30-150		11/24/24 0:10

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1221 [1]	ND	0.10	0.046	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1232 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1242 [1]	ND	0.10	0.028	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1248 [1]	ND	0.10	0.024	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1254 [1]	ND	0.10	0.030	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1260 [1]	ND	0.10	0.021	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1262 [1]	ND	0.10	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW
Aroclor-1268 [1]	ND	0.10	0.026	mg/Kg dry	4		SW-846 8082A	11/7/24	11/17/24 19:28	MEW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.7	30-150		11/17/24 19:28
Decachlorobiphenyl [2]	58.1	30-150		11/17/24 19:28
Tetrachloro-m-xylene [1]	66.5	30-150		11/17/24 19:28
Tetrachloro-m-xylene [2]	64.9	30-150		11/17/24 19:28

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5300	20	6.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Arsenic	5.6	4.0	0.56	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Barium	23	2.0	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Beryllium	0.30	0.20	0.060	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Cadmium	0.40	0.40	0.19	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Calcium	1300	20	10	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Chromium	11	0.79	0.50	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Cobalt	2.7	2.0	0.34	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Copper	21	1.6	1.4	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Iron	9300	20	9.2	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Lead	84	0.59	0.42	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Magnesium	1900	20	4.6	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Manganese	100	0.40	0.22	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Mercury	0.13	0.030	0.014	mg/Kg dry	1		SW-846 7471B	11/25/24	11/25/24 23:22	MJH
Nickel	7.0	0.79	0.55	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Potassium	710	200	49	mg/Kg dry	1		SW-846 6010D	11/6/24	11/11/24 22:08	HNN
Selenium	ND	4.0	0.98	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Silver	ND	0.40	0.24	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Sodium	2200	200	59	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Thallium	ND	2.0	0.63	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Vanadium	13	0.79	0.44	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN
Zinc	67	0.79	0.70	mg/Kg dry	1		SW-846 6010D	11/6/24	11/8/24 20:59	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SDMT-2 (1-2) 102924 | Sampled: 10/29/2024 16:30

Sample ID: 24K0186-16

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1			% Wt	1	H-06	SM 2540G	11/9/24	11/9/24 12:03	MLR/
Cyanide	ND	0.55	0.42	mg/Kg dry	1		SW-846 9014	11/11/24	11/11/24 16:15	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: WC-102924 | Sampled: 10/29/2024 15:05

Sample ID: 24K0186-17

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.8			% Wt	1	H-06	SM 2540G	11/15/24	11/15/24 15:32	ANR

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: WC-102924 | Sampled: 10/29/2024 15:05

Sample ID: 24K0186-17

Sample Matrix: Soil

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.010	0.0014	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
2-Butanone (MEK)	0.029	0.20	0.014	mg/L	1	J	SW-846 8260D	11/18/24	11/19/24 5:39	MFF
Carbon Tetrachloride	ND	0.010	0.0019	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
Chlorobenzene	ND	0.010	0.0018	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
Chloroform	ND	0.010	0.0019	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
1,4-Dichlorobenzene	ND	0.010	0.0017	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
1,2-Dichloroethane	ND	0.010	0.0013	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
1,1-Dichloroethylene	ND	0.010	0.0018	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
Tetrachloroethylene	ND	0.010	0.0017	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
Trichloroethylene	ND	0.010	0.0017	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF
Vinyl Chloride	ND	0.020	0.0019	mg/L	1		SW-846 8260D	11/18/24	11/19/24 5:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	103	70-130		11/19/24	5:39
Toluene-d8	92.8	70-130		11/19/24	5:39
4-Bromofluorobenzene	81.7	70-130		11/19/24	5:39

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: WC-102924 | Sampled: 10/29/2024 15:05

Sample ID: 24K0186-17

Sample Matrix: Soil

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.038	0.0026	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
Hexachlorobenzene	ND	0.038	0.0018	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
Hexachlorobutadiene	ND	0.038	0.0022	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
Hexachloroethane	ND	0.038	0.0022	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
2-Methylphenol	ND	0.038	0.0017	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
3/4-Methylphenol	ND	0.038	0.0014	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
Nitrobenzene	ND	0.038	0.0019	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
Pentachlorophenol	ND	0.038	0.015	mg/L	1	V-05	SW-846 8270E	11/18/24	11/21/24 10:02	KMC
Pyridine	ND	0.019	0.0064	mg/L	1	V-34	SW-846 8270E	11/18/24	11/21/24 10:02	KMC
2,4,5-Trichlorophenol	ND	0.038	0.0021	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC
2,4,6-Trichlorophenol	ND	0.038	0.0018	mg/L	1		SW-846 8270E	11/18/24	11/21/24 10:02	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	60.7	15-110		11/21/24 10:02
Phenol-d6	61.9	15-110		11/21/24 10:02
Nitrobenzene-d5	68.0	30-130		11/21/24 10:02
2-Fluorobiphenyl	63.2	30-130		11/21/24 10:02
2,4,6-Tribromophenol	72.4	15-110		11/21/24 10:02
p-Terphenyl-d14	75.7	30-130		11/21/24 10:02

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: WC-102924 | Sampled: 10/29/2024 15:05

Sample ID: 24K0186-17

Sample Matrix: Soil

TCLP - Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
gamma-BHC (Lindane) [2]	ND	0.032	0.0044	µg/L	1		SW-846 8081B	11/18/24	11/19/24 13:10	TG
Chlordane [2]	ND	0.21	0.090	µg/L	1		SW-846 8081B	11/18/24	11/19/24 13:10	TG
Endrin [2]	ND	0.085	0.019	µg/L	1		SW-846 8081B	11/18/24	11/19/24 13:10	TG
Heptachlor [2]	ND	0.053	0.0050	µg/L	1		SW-846 8081B	11/18/24	11/19/24 13:10	TG
Methoxychlor [2]	ND	0.53	0.085	µg/L	1		SW-846 8081B	11/18/24	11/19/24 13:10	TG
Toxaphene [2]	ND	1.1	0.44	µg/L	1		SW-846 8081B	11/18/24	11/19/24 13:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		11/19/24 13:10
Decachlorobiphenyl [2]	85.9	30-150		11/19/24 13:10
Tetrachloro-m-xylene [1]	65.6	30-150		11/19/24 13:10
Tetrachloro-m-xylene [2]	67.8	30-150		11/19/24 13:10

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: WC-102924
Sampled: 10/29/2024 15:05

Sample ID: 24K0186-17

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.050	0.0050	mg/L	1		SW-846 6010D	11/18/24	11/18/24 17:23	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/18/24	11/19/24 13:12	AAJ
Barium	0.18	0.50	0.0098	mg/L	1	J	SW-846 6010D	11/18/24	11/18/24 17:23	HNN
Cadmium	0.0015	0.010	0.0015	mg/L	1	J	SW-846 6010D	11/18/24	11/18/24 17:23	HNN
Chromium	ND	0.050	0.0053	mg/L	1		SW-846 6010D	11/18/24	11/18/24 17:23	HNN
Lead	0.017	0.10	0.0044	mg/L	1	J	SW-846 6010D	11/18/24	11/18/24 17:23	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/18/24	11/18/24 17:23	HNN
Silver	ND	0.050	0.0044	mg/L	1		SW-846 6010D	11/18/24	11/18/24 17:23	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.6	50	2.0	µg/L	1	V-05, J	SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
cis-1,2-Dichloroethylene	1.5	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Vinyl Chloride	1.1	2.0	0.19	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 16:35	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 16:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.3	70-130		11/6/24 16:35
Toluene-d8	87.0	70-130		11/6/24 16:35
4-Bromofluorobenzene	101	70-130		11/6/24 16:35

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzaldehyde	ND	9.5	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Acetophenone	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Aniline	ND	19	8.5	µg/L	1	V-05	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.54	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.5	0.71	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Bromophenylphenylether	ND	9.5	0.67	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Butylbenzylphthalate	ND	9.5	0.37	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Carbazole	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Chlorophenylphenylether	ND	9.5	0.82	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Di-n-butylphthalate	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
3,3-Dichlorobenzidine	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dichlorophenol	ND	9.5	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Dimethylphthalate	ND	9.5	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04, V-05	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Fluorene	ND	4.7	0.72	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Hexachlorobenzene	ND	9.5	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Hexachloroethane	ND	9.5	1.2	µg/L	1	L-04	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Isophorone	ND	9.5	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
1-Methylnaphthalene	ND	4.7	0.93	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Methylphenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
3/4-Methylphenol	ND	9.5	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Nitroaniline	ND	9.5	0.41	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2-Nitrophenol	ND	9.5	0.51	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Pentachlorophenol	ND	9.5	0.45	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Phenol	ND	9.5	0.56	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Pyrene	ND	4.7	0.44	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
Pyridine	ND	19	4.9	µg/L	1	V-34	SW-846 8270E	11/5/24	11/7/24 15:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1		SW-846 8270E	11/5/24	11/7/24 15:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	44.0	15-110		11/7/24 15:43
Phenol-d6	37.4	15-110		11/7/24 15:43
Nitrobenzene-d5	74.0	30-130		11/7/24 15:43
2-Fluorobiphenyl	74.0	30-130		11/7/24 15:43
2,4,6-Tribromophenol	50.6	15-110		11/7/24 15:43
p-Terphenyl-d14	98.5	30-130		11/7/24 15:43

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/5/24	11/12/24 6:50	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.0	15-110		11/12/24 6:50	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Sample Flags: Z-01a

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.2	6.5	0.81	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoropentanoic acid (PFPeA)	3.8	3.2	0.45	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorohexanoic acid (PFHxA)	3.2	1.6	0.28	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoroheptanoic acid (PFHpA)	2.2	1.6	0.28	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorooctanoic acid (PFOA)	4.1	1.6	0.42	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorononanoic acid (PFNA)	0.88	1.6	0.66	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorobutanesulfonic acid (PFBS)	0.54	1.6	0.35	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.65	1.6	0.63	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorooctanesulfonic acid (PFOS)	1.4	1.6	0.40	ng/L	1	J	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1	PF-18	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1	PF-18	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1	PF-18	Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.94	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.1	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	9.1	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.57	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Sample Flags: Z-01a

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.43	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	11/27/24	12/4/24 2:39	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	72.8		5-130	Z-01	12/4/24 2:39
13C5-PFPeA	48.3		40-130		12/4/24 2:39
13C5-PFHxA	80.5		40-130		12/4/24 2:39
13C4-PFHpA	89.8		40-130		12/4/24 2:39
13C8-PFOA	72.8		40-130		12/4/24 2:39
13C9-PFNA	76.8		40-130		12/4/24 2:39
13C6-PFDA	68.3		40-130		12/4/24 2:39
13C7-PFUnA	61.5		30-130		12/4/24 2:39
13C2-PFDoA	56.5		10-130		12/4/24 2:39
13C2-PFTeDA	39.7		10-130		12/4/24 2:39
13C3-PFBS	74.7		40-135		12/4/24 2:39
13C3-PFHxS	83.2		40-130		12/4/24 2:39
13C8-PFOS	74.9		40-130		12/4/24 2:39
13C2-4:2FTS	**32.0**	*	40-200	PF-18	12/4/24 2:39
13C2-6:2FTS	41.7		40-200		12/4/24 2:39
13C2-8:2FTS	**39.1**	*	40-300	PF-18	12/4/24 2:39
13C8-PFOSA	60.6		40-130		12/4/24 2:39
D3-NMeFOSA	49.0		10-130		12/4/24 2:39
D5-NEtFOSA	40.2		10-130		12/4/24 2:39
D3-NMeFOSAA	**29.0**	*	40-170	PF-18	12/4/24 2:39
D5-NEtFOSAA	28.1		25-135		12/4/24 2:39
D7-NMeFOSE	38.7		10-130		12/4/24 2:39
D9-NEtFOSE	33.6		10-130		12/4/24 2:39
13C3-HFPO-DA	95.0		40-130		12/4/24 2:39

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924
Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	1.7	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Arsenic	0.012	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Barium	0.023	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Calcium	250	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Chromium	0.0067	0.010	0.0053	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Cobalt	0.0030	0.010	0.0027	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Copper	0.039	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Iron	3.4	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Lead	0.020	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Magnesium	670	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Manganese	0.20	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:20	AAJ
Nickel	0.011	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Potassium	260	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:45	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Sodium	6600	100	19	mg/L	50		SW-846 6010D	11/6/24	11/14/24 6:13	NC
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN
Zinc	0.029	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:10	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: SW-3-102924 | Sampled: 10/29/2024 16:20

Sample ID: 24K0186-18

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/10/24	11/11/24 11:22	DET

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05	SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Tetrachloroethylene	0.25	1.0	0.17	µg/L	1	J	SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/5/24	11/6/24 17:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		11/6/24 17:01
Toluene-d8	99.0	70-130		11/6/24 17:01
4-Bromofluorobenzene	102	70-130		11/6/24 17:01

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.2	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Caprolactam	ND	9.3	0.67	µg/L	1	L-04	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Acetophenone	ND	9.3	0.47	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Aniline	ND	19	8.3	µg/L	1	V-05	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(g,h,i)perylene	ND	4.6	0.49	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Benzo(k)fluoranthene	ND	4.6	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.3	0.70	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Carbazole	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Chrysene	ND	4.6	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Dibenzofuran	ND	4.6	0.80	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Di-n-butylphthalate	ND	9.3	0.47	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
3,3-Dichlorobenzidine	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Dimethylphthalate	ND	9.3	0.41	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dinitrophenol	ND	9.3	1.2	µg/L	1	V-04, V-05	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-04	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
1-Methylnaphthalene	ND	4.6	0.91	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Methylnaphthalene	ND	4.6	0.87	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Methylphenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
3/4-Methylphenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Nitroaniline	ND	9.3	0.41	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
4-Nitrophenol	ND	9.3	1.2	µg/L	1	V-05	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
N-Nitrosodiphenylamine/Diphenylamine	2.0	9.3	0.45	µg/L	1	J	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Pentachlorophenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Phenanthrene	ND	4.6	0.67	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Pyrene	ND	4.6	0.43	µg/L	1	V-06	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
Pyridine	ND	19	4.8	µg/L	1	V-05, V-34	SW-846 8270E	11/5/24	11/14/24 9:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	11/5/24	11/14/24 9:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	26.2	15-110		11/14/24 9:55
Phenol-d6	26.2	15-110		11/14/24 9:55
Nitrobenzene-d5	87.2	30-130		11/14/24 9:55
2-Fluorobiphenyl	84.4	30-130		11/14/24 9:55
2,4,6-Tribromophenol	32.1	15-110		11/14/24 9:55
p-Terphenyl-d14	108	30-130		11/14/24 9:55

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.14	0.20	0.033	µg/L	1	J	SW-846 8270E	11/5/24	11/12/24 7:10	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	24.1	15-110		11/12/24 7:10	

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	6.5	0.81	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoropentanoic acid (PFPeA)	14	3.2	0.45	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorohexanoic acid (PFHxA)	12	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoroheptanoic acid (PFHpA)	9.3	1.6	0.29	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorooctanoic acid (PFOA)	19	1.6	0.42	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorononanoic acid (PFNA)	3.5	1.6	0.66	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorodecanoic acid (PFDA)	1.1	1.6	0.39	ng/L	1	J	Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorobutanesulfonic acid (PFBS)	2.7	1.6	0.35	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.6	0.63	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorooctanesulfonic acid (PFOS)	7.5	1.6	0.40	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	9.1	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.58	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	0.43	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	11/21/24	11/26/24 16:05	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	66.7	5-130		11/26/24 16:05
13C5-PFPeA	63.5	40-130		11/26/24 16:05
13C5-PFHxA	63.0	40-130		11/26/24 16:05
13C4-PFHpA	56.5	40-130		11/26/24 16:05
13C8-PFOA	68.9	40-130		11/26/24 16:05
13C9-PFNA	62.8	40-130		11/26/24 16:05
13C6-PFDA	55.4	40-130		11/26/24 16:05
13C7-PFUnA	59.9	30-130		11/26/24 16:05
13C2-PFDoA	56.2	10-130		11/26/24 16:05
13C2-PFTeDA	46.0	10-130		11/26/24 16:05
13C3-PFBS	63.5	40-135		11/26/24 16:05
13C3-PFHxS	67.9	40-130		11/26/24 16:05
13C8-PFOS	57.8	40-130		11/26/24 16:05
13C2-4:2FTS	73.7	40-200		11/26/24 16:05
13C2-6:2FTS	46.8	40-200		11/26/24 16:05
13C2-8:2FTS	49.5	40-300		11/26/24 16:05
13C8-PFOSA	49.2	40-130		11/26/24 16:05
D3-NMeFOSA	43.7	10-130		11/26/24 16:05
D5-NEtFOSA	40.1	10-130		11/26/24 16:05
D3-NMeFOSAA	44.5	40-170		11/26/24 16:05
D5-NEtFOSAA	43.4	25-135		11/26/24 16:05
D7-NMeFOSE	42.2	10-130		11/26/24 16:05
D9-NEtFOSE	38.2	10-130		11/26/24 16:05
13C3-HFPO-DA	63.9	40-130		11/26/24 16:05

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Project Location: Nassau, NY
Sample Description:
Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924
Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.076	0.050	0.025	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Barium	0.034	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Calcium	38	0.50	0.21	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Iron	0.24	0.050	0.036	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Lead	0.0057	0.010	0.0044	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Magnesium	58	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Manganese	0.025	0.010	0.0018	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/19/24	11/20/24 13:22	AAJ
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Potassium	19	2.0	0.47	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Sodium	470	2.0	0.38	mg/L	1		SW-846 6010D	11/6/24	11/7/24 19:53	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Vanadium	0.0067	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/6/24	11/9/24 10:18	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/6/24	11/9/24 10:18	HNN

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Project Location: Nassau, NY | Sample Description: | Work Order: 24K0186

Date Received: 10/31/2024

Field Sample #: DUP(SW) 102924 | Sampled: 10/29/2024 00:00

Sample ID: 24K0186-19

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/7/24	11/7/24 14:06	DET

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-04 [DUP(SS) 102924]	B392724	5.47	4.00	11/27/24
24K0186-05 [DPT-2(SS) 102924]	B392724	5.60	4.00	11/27/24
24K0186-06 [DPT-1(SS) 102924]	B392724	5.22	4.00	11/27/24
24K0186-07 [MW-1(SS) 102924]	B392724	5.40	4.00	11/27/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B392724	6.06	4.00	11/27/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B392724	7.61	4.00	11/27/24
24K0186-14 [SDMT-1 (1-2) 102924]	B392724	7.68	4.00	11/27/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B392724	5.74	4.00	11/27/24
24K0186-16 [SDMT-2 (1-2) 102924]	B392724	6.46	4.00	11/27/24

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-10RE1 [SDMT-3 (1-2) 102924]	B393452	6.34	4.00	12/03/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-02 [EB 102824]	B392719	485	4.00	11/21/24
24K0186-03 [EB 102924]	B392719	470	4.00	11/21/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-11 [SW-1-102924]	B392841	481	4.00	11/21/24
24K0186-12 [SW-2-102924]	B392841	492	4.00	11/21/24
24K0186-19 [DUP(SW) 102924]	B392841	494	4.00	11/21/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-18RE1 [SW-3-102924]	B393179	495	4.00	11/27/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0186-06 [DPT-1(SS) 102924]	B391843	11/09/24
24K0186-07 [MW-1(SS) 102924]	B391843	11/09/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391843	11/09/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391843	11/09/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391843	11/09/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391843	11/09/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391843	11/09/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391843	11/09/24

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Sample Extraction Data

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0186-01 [MW-4(5-6.5)102824]	B392045	11/12/24
24K0186-04 [DUP(SS) 102924]	B392045	11/12/24
24K0186-05 [DPT-2(SS) 102924]	B392045	11/12/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24K0186-17 [WC-102924]	B392374	11/15/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-04 [DUP(SS) 102924]	B391581	1.52	50.0	11/06/24
24K0186-05 [DPT-2(SS) 102924]	B391581	1.52	50.0	11/06/24
24K0186-06 [DPT-1(SS) 102924]	B391581	1.51	50.0	11/06/24
24K0186-07 [MW-1(SS) 102924]	B391581	1.58	50.0	11/06/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391581	1.57	50.0	11/06/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391581	1.55	50.0	11/06/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391581	1.59	50.0	11/06/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391581	1.53	50.0	11/06/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391581	1.52	50.0	11/06/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391581	1.60	50.0	11/06/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-01 [MW-4(5-6.5)102824]	B391603	1.55	50.0	11/06/24

Prep Method:SW-846 3010A **Analytical Method:SW-846 6010D** **Leachates were extracted on 11/16/2024 per SW-846 1311 in Batch B392396**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-17 [WC-102924]	B392457	50.0	50.0	11/18/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-11 [SW-1-102924]	B391602	50.0	50.0	11/06/24
24K0186-12 [SW-2-102924]	B391602	50.0	50.0	11/06/24
24K0186-18 [SW-3-102924]	B391602	50.0	50.0	11/06/24
24K0186-19 [DUP(SW) 102924]	B391602	50.0	50.0	11/06/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A** **Leachates were extracted on 11/16/2024 per SW-846 1311 in Batch B392396**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-17 [WC-102924]	B392496	10.0	10.0	11/18/24

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Sample Extraction Data

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-11 [SW-1-102924]	B392629	10.0	10.0	11/19/24
24K0186-12 [SW-2-102924]	B392629	10.0	10.0	11/19/24
24K0186-18 [SW-3-102924]	B392629	10.0	10.0	11/19/24
24K0186-19 [DUP(SW) 102924]	B392629	10.0	10.0	11/19/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-01 [MW-4(5-6.5)102824]	B392807	0.617	50.0	11/21/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-04 [DUP(SS) 102924]	B393090	0.582	50.0	11/25/24
24K0186-05 [DPT-2(SS) 102924]	B393090	0.601	50.0	11/25/24
24K0186-06 [DPT-1(SS) 102924]	B393090	0.585	50.0	11/25/24
24K0186-07 [MW-1(SS) 102924]	B393090	0.585	50.0	11/25/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B393090	0.600	50.0	11/25/24
24K0186-10 [SDMT-3 (1-2) 102924]	B393090	0.619	50.0	11/25/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B393090	0.598	50.0	11/25/24
24K0186-14 [SDMT-1 (1-2) 102924]	B393090	0.590	50.0	11/25/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B393090	0.582	50.0	11/25/24
24K0186-16 [SDMT-2 (1-2) 102924]	B393090	0.627	50.0	11/25/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-01 [MW-4(5-6.5)102824]	B391935	10.3	10.0	11/11/24
24K0186-01RE1 [MW-4(5-6.5)102824]	B391935	10.3	10.0	11/11/24
24K0186-04 [DUP(SS) 102924]	B391935	10.4	10.0	11/11/24
24K0186-04RE1 [DUP(SS) 102924]	B391935	10.4	10.0	11/11/24
24K0186-05 [DPT-2(SS) 102924]	B391935	10.0	10.0	11/11/24
24K0186-05RE1 [DPT-2(SS) 102924]	B391935	10.0	10.0	11/11/24
24K0186-06 [DPT-1(SS) 102924]	B391935	10.2	10.0	11/11/24
24K0186-06RE1 [DPT-1(SS) 102924]	B391935	10.2	10.0	11/11/24
24K0186-07 [MW-1(SS) 102924]	B391935	10.2	10.0	11/11/24
24K0186-07RE1 [MW-1(SS) 102924]	B391935	10.2	10.0	11/11/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391935	10.4	10.0	11/11/24
24K0186-09RE1 [SDMT-3 (0.5-1) 102924]	B391935	10.4	10.0	11/11/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391935	10.5	10.0	11/11/24
24K0186-10RE1 [SDMT-3 (1-2) 102924]	B391935	10.5	10.0	11/11/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391935	10.4	10.0	11/11/24
24K0186-13RE1 [SDMT-1 (0.5-1) 102924]	B391935	10.4	10.0	11/11/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391935	10.6	10.0	11/11/24
24K0186-14RE1 [SDMT-1 (1-2) 102924]	B391935	10.6	10.0	11/11/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391935	10.5	10.0	11/11/24
24K0186-15RE1 [SDMT-2 (0.5-1) 102924]	B391935	10.5	10.0	11/11/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391935	10.2	10.0	11/11/24
24K0186-16RE1 [SDMT-2 (1-2) 102924]	B391935	10.2	10.0	11/11/24

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Sample Extraction Data

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B** **Leachates were extracted on 11/16/2024 per SW-846 1311 in Batch B392396**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-17 [WC-102924]	B392432	470	5.00	11/18/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-01 [MW-4(5-6.5)102824]	B391689	10.1	10.0	11/07/24
24K0186-04 [DUP(SS) 102924]	B391689	10.0	10.0	11/07/24
24K0186-05 [DPT-2(SS) 102924]	B391689	10.1	10.0	11/07/24
24K0186-06 [DPT-1(SS) 102924]	B391689	10.1	10.0	11/07/24
24K0186-07 [MW-1(SS) 102924]	B391689	10.0	10.0	11/07/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391689	10.1	10.0	11/07/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391689	10.1	10.0	11/07/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391689	10.0	10.0	11/07/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391689	10.1	10.0	11/07/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391689	10.1	10.0	11/07/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391689	10.1	10.0	11/07/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-04 [DUP(SS) 102924]	B391435	5.53	10.0	11/05/24
24K0186-05 [DPT-2(SS) 102924]	B391435	7.48	10.0	11/05/24
24K0186-06 [DPT-1(SS) 102924]	B391435	10.8	10.0	11/05/24
24K0186-07 [MW-1(SS) 102924]	B391435	5.33	10.0	11/05/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391435	5.93	10.0	11/05/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391435	5.03	10.0	11/05/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391458	5.57	6.88	1	50	11/05/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391458	4.73	6.59	1	50	11/05/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391458	6.96	5.85	1	50	11/05/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391458	7.37	6.54	1	50	11/05/24

Prep Method:SW-846 5030B **Analytical Method:SW-846 8260D** **Leachates were extracted on 11/16/2024 per SW-846 1311 in Batch B392411**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-17 [WC-102924]	B392437	5.00	5.00	11/18/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-08 [Trip Blank 102924]	B391462	5	5.00	11/05/24
24K0186-11 [SW-1-102924]	B391462	5	5.00	11/05/24
24K0186-12 [SW-2-102924]	B391462	5	5.00	11/05/24
24K0186-18 [SW-3-102924]	B391462	5	5.00	11/05/24
24K0186-19 [DUP(SW) 102924]	B391462	5	5.00	11/05/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-04 [DUP(SS) 102924]	B391852	30.8	1.00	11/10/24
24K0186-05 [DPT-2(SS) 102924]	B391852	30.9	1.00	11/10/24
24K0186-06 [DPT-1(SS) 102924]	B391852	30.7	1.00	11/10/24
24K0186-07 [MW-1(SS) 102924]	B391852	30.5	1.00	11/10/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391852	30.3	1.00	11/10/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391852	30.5	1.00	11/10/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391852	30.8	1.00	11/10/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391852	30.4	1.00	11/10/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391852	30.6	1.00	11/10/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391852	30.6	1.00	11/10/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-04 [DUP(SS) 102924]	B391934	20.1	1.00	11/11/24
24K0186-05 [DPT-2(SS) 102924]	B391934	20.2	1.00	11/11/24
24K0186-06 [DPT-1(SS) 102924]	B391934	20.2	1.00	11/11/24
24K0186-07 [MW-1(SS) 102924]	B391934	20.2	1.00	11/11/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391934	20.2	1.00	11/11/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391934	20.4	1.00	11/11/24
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391934	20.3	1.00	11/11/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391934	20.2	1.00	11/11/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391934	20.3	1.00	11/11/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391934	20.1	1.00	11/11/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-11 [SW-1-102924]	B391320	930	1.00	11/04/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-11 [SW-1-102924]	B391397	106	1.00	11/05/24
24K0186-12 [SW-2-102924]	B391397	99.6	1.00	11/05/24
24K0186-18 [SW-3-102924]	B391397	106	1.00	11/05/24
24K0186-19 [DUP(SW) 102924]	B391397	108	1.00	11/05/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-12 [SW-2-102924]	B391403	1030	1.00	11/05/24
24K0186-18 [SW-3-102924]	B391403	1010	1.00	11/05/24
24K0186-19 [DUP(SW) 102924]	B391403	1000	1.00	11/05/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E** **Leachates were extracted on 11/16/2024 per SW-846 1311 in Batch B392396**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

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Sample Extraction Data

Prep Method:SW-846 3510C **Analytical Method:SW-846 8270E** **Leachates were extracted on 11/16/2024 per SW-846 1311 in Batch B392396**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-17 [WC-102924]	B392435	260	1.00	11/18/24

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-01 [MW-4(5-6.5)102824]	B391854	1.06	50.0	11/10/24
24K0186-04 [DUP(SS) 102924]	B391854	1.02	50.0	11/10/24
24K0186-05 [DPT-2(SS) 102924]	B391854	1.02	50.0	11/10/24
24K0186-06 [DPT-1(SS) 102924]	B391854	1.06	50.0	11/10/24
24K0186-07 [MW-1(SS) 102924]	B391854	1.03	50.0	11/10/24
24K0186-09 [SDMT-3 (0.5-1) 102924]	B391854	1.01	50.0	11/10/24
24K0186-10 [SDMT-3 (1-2) 102924]	B391854	1.06	50.0	11/10/24

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24K0186-13 [SDMT-1 (0.5-1) 102924]	B391886	1.10	50.0	11/11/24
24K0186-14 [SDMT-1 (1-2) 102924]	B391886	1.12	50.0	11/11/24
24K0186-15 [SDMT-2 (0.5-1) 102924]	B391886	1.02	50.0	11/11/24
24K0186-16 [SDMT-2 (1-2) 102924]	B391886	1.14	50.0	11/11/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-19 [DUP(SW) 102924]	B391656	50.0	50.0	11/07/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0186-11 [SW-1-102924]	B391856	50.0	50.0	11/10/24
24K0186-12 [SW-2-102924]	B391856	50.0	50.0	11/10/24
24K0186-18 [SW-3-102924]	B391856	50.0	50.0	11/10/24

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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 B391435 - SW-846 5035										
Blank (B391435-BLK1)				Prepared & Analyzed: 11/05/24						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Alcohol (TAA)	ND	0.020	mg/Kg wet							
tert-Amyl Ethyl Ether (TAEE)	ND	0.0020	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethanol	ND	0.20	mg/Kg wet							V-05
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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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 B391435 - SW-846 5035										
Blank (B391435-BLK1)				Prepared & Analyzed: 11/05/24						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0498*		mg/Kg wet	0.05000		99.7	70-130			
Surrogate: Toluene-d8	*0.0495*		mg/Kg wet	0.05000		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0482*		mg/Kg wet	0.05000		96.4	70-130			
LCS (B391435-BS1)				Prepared & Analyzed: 11/05/24						
Acetone	0.191	0.10	mg/Kg wet	0.2000		95.3	70-160			†
tert-Amyl Alcohol (TAA)	0.199	0.020	mg/Kg wet	0.2000		99.3	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-130			
tert-Amyl Methyl Ether (TAME)	0.0210	0.0010	mg/Kg wet	0.02000		105	70-130			
Benzene	0.0197	0.0020	mg/Kg wet	0.02000		98.4	70-130			
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.02000		113	70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.02000		95.4	70-130			
Bromoform	0.0213	0.0020	mg/Kg wet	0.02000		106	70-130			
Bromomethane	0.0221	0.010	mg/Kg wet	0.02000		110	40-130			†
2-Butanone (MEK)	0.197	0.040	mg/Kg wet	0.2000		98.7	70-160			†
tert-Butyl Alcohol (TBA)	0.202	0.10	mg/Kg wet	0.2000		101	40-130			†
n-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130			
sec-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.5	70-130			
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.02000		98.5	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0194	0.0010	mg/Kg wet	0.02000		97.0	70-130			
Carbon Disulfide	0.189	0.020	mg/Kg wet	0.2000		94.4	70-130			
Carbon Tetrachloride	0.0195	0.0020	mg/Kg wet	0.02000		97.3	70-130			
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		98.2	70-130			
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.02000		104	70-130			
Chloroethane	0.0182	0.020	mg/Kg wet	0.02000		91.0	70-130			J
Chloroform	0.0193	0.0040	mg/Kg wet	0.02000		96.4	70-130			
Chloromethane	0.0168	0.010	mg/Kg wet	0.02000		84.2	70-130			
Cyclohexane	0.0185	0.010	mg/Kg wet	0.02000		92.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0199	0.0040	mg/Kg wet	0.02000		99.5	70-130			
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.02000		102	70-130			
1,2-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.7	70-130			
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.3	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.02000		97.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0167	0.020	mg/Kg wet	0.02000		83.6	40-160			J †
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.02000		95.8	70-130			
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.02000		102	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 B391435 - SW-846 5035											
LCS (B391435-BS1)				Prepared & Analyzed: 11/05/24							
1,1-Dichloroethylene	0.0179	0.0040	mg/Kg wet	0.02000		89.6	70-130				
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.02000		94.5	70-130				
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130				
1,2-Dichloropropane	0.0188	0.0020	mg/Kg wet	0.02000		94.0	70-130				
cis-1,3-Dichloropropene	0.0202	0.0010	mg/Kg wet	0.02000		101	70-130				
trans-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.02000		100	70-130				
Diisopropyl Ether (DIPE)	0.0188	0.0010	mg/Kg wet	0.02000		93.9	70-130				
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.7	70-130				
2-Hexanone (MBK)	0.200	0.020	mg/Kg wet	0.2000		100	70-160				†
Isopropylbenzene (Cumene)	0.0196	0.0020	mg/Kg wet	0.02000		98.1	70-130				
p-Isopropyltoluene (p-Cymene)	0.0192	0.0020	mg/Kg wet	0.02000		95.9	70-130				
Methyl Acetate	0.0189	0.0020	mg/Kg wet	0.02000		94.7	70-130				
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.02000		101	70-130				
Methyl Cyclohexane	0.0194	0.0020	mg/Kg wet	0.02000		96.8	70-130				
Methylene Chloride	0.0184	0.020	mg/Kg wet	0.02000		92.0	40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.2000		101	70-160				†
Naphthalene	0.0168	0.0040	mg/Kg wet	0.02000		83.9	40-130				†
n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.02000		99.4	70-130				
Styrene	0.0204	0.0020	mg/Kg wet	0.02000		102	70-130				
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.02000		105	70-130				
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		91.0	70-130				
Toluene	0.0182	0.0020	mg/Kg wet	0.02000		91.2	70-130				
1,2,3-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.02000		85.8	70-130				
1,2,4-Trichlorobenzene	0.0168	0.0020	mg/Kg wet	0.02000		84.1	70-130				
1,1,1-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.02000		93.6	70-130				
1,1,2-Trichloroethane	0.0223	0.0020	mg/Kg wet	0.02000		111	70-130				
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.02000		93.6	70-130				
Trichlorofluoromethane (Freon 11)	0.0199	0.010	mg/Kg wet	0.02000		99.7	70-130				
1,2,3-Trichloropropane	0.0224	0.0020	mg/Kg wet	0.02000		112	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0197	0.010	mg/Kg wet	0.02000		98.4	70-130				
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.02000		99.7	70-130				
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.02000		97.1	70-130				
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.02000		86.9	40-130				†
m+p Xylene	0.0386	0.0040	mg/Kg wet	0.04000		96.4	70-130				
o-Xylene	0.0201	0.0020	mg/Kg wet	0.02000		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0486*		mg/Kg wet	0.05000		97.3	70-130				
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.05000		99.2	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.05000		100	70-130				
LCS (B391435-BS2)				Prepared & Analyzed: 11/05/24							
Ethanol	0.0888	0.20	mg/Kg wet	0.2000		44.4	40-160			V-05, J	
Surrogate: 1,2-Dichloroethane-d4	*0.0485*		mg/Kg wet	0.05000		96.9	70-130				
Surrogate: Toluene-d8	*0.0495*		mg/Kg wet	0.05000		99.0	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0483*		mg/Kg wet	0.05000		96.5	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 B391435 - SW-846 5035											
LCS Dup (B391435-BSD1)				Prepared & Analyzed: 11/05/24							
Acetone	0.188	0.10	mg/Kg wet	0.2000		94.2	70-160	1.18	25		†
tert-Amyl Alcohol (TAA)	0.194	0.020	mg/Kg wet	0.2000		97.1	70-130	2.23	25		
tert-Amyl Ethyl Ether (TAEE)	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130	1.59	25		
tert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.02000		102	70-130	2.99	25		
Benzene	0.0188	0.0020	mg/Kg wet	0.02000		93.9	70-130	4.68	25		
Bromochloromethane	0.0212	0.0020	mg/Kg wet	0.02000		106	70-130	6.13	25		
Bromodichloromethane	0.0198	0.0020	mg/Kg wet	0.02000		99.1	70-130	3.80	25		
Bromoform	0.0219	0.0020	mg/Kg wet	0.02000		110	70-130	3.06	25		
Bromomethane	0.0220	0.010	mg/Kg wet	0.02000		110	40-130	0.272	25		†
2-Butanone (MEK)	0.196	0.040	mg/Kg wet	0.2000		98.0	70-160	0.742	25		†
tert-Butyl Alcohol (TBA)	0.197	0.10	mg/Kg wet	0.2000		98.5	40-130	2.50	25		†
n-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130	3.03	25		
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.02000		93.5	70-130	2.12	25		
tert-Butylbenzene	0.0190	0.0020	mg/Kg wet	0.02000		95.2	70-160	3.41	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0190	0.0010	mg/Kg wet	0.02000		95.1	70-130	1.98	25		
Carbon Disulfide	0.182	0.020	mg/Kg wet	0.2000		90.8	70-130	3.93	25		
Carbon Tetrachloride	0.0187	0.0020	mg/Kg wet	0.02000		93.7	70-130	3.77	25		
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.4	70-130	1.85	25		
Chlorodibromomethane	0.0204	0.0010	mg/Kg wet	0.02000		102	70-130	1.75	25		
Chloroethane	0.0185	0.020	mg/Kg wet	0.02000		92.4	70-130	1.53	25	J	
Chloroform	0.0189	0.0040	mg/Kg wet	0.02000		94.5	70-130	1.99	25		
Chloromethane	0.0168	0.010	mg/Kg wet	0.02000		84.1	70-130	0.119	25		
Cyclohexane	0.0177	0.010	mg/Kg wet	0.02000		88.6	70-130	4.09	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0198	0.0040	mg/Kg wet	0.02000		99.2	70-130	0.302	25		
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.02000		103	70-130	1.85	25		
1,2-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130	0.419	25		
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.02000		95.1	70-130	1.25	25		
1,4-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.02000		90.6	70-130	7.64	25		
Dichlorodifluoromethane (Freon 12)	0.0154	0.020	mg/Kg wet	0.02000		76.8	40-160	8.48	25	J	†
1,1-Dichloroethane	0.0184	0.0020	mg/Kg wet	0.02000		91.9	70-130	4.16	25		
1,2-Dichloroethane	0.0200	0.0020	mg/Kg wet	0.02000		99.8	70-130	2.08	25		
1,1-Dichloroethylene	0.0171	0.0040	mg/Kg wet	0.02000		85.6	70-130	4.57	25		
cis-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.02000		95.4	70-130	0.948	25		
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.02000		90.9	70-130	0.00	25		
1,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.02000		89.1	70-130	5.35	25		
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.02000		99.9	70-130	0.897	25		
trans-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.02000		95.1	70-130	5.12	25		
Diisopropyl Ether (DIPE)	0.0184	0.0010	mg/Kg wet	0.02000		92.0	70-130	2.04	25		
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.02000		96.3	70-130	0.415	25		
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.2000		102	70-160	2.08	25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.02000		97.5	70-130	0.613	25		
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.02000		94.7	70-130	1.26	25		
Methyl Acetate	0.0205	0.0020	mg/Kg wet	0.02000		102	70-130	7.81	25		
Methyl tert-Butyl Ether (MTBE)	0.0200	0.0040	mg/Kg wet	0.02000		100	70-130	0.797	25		
Methyl Cyclohexane	0.0191	0.0020	mg/Kg wet	0.02000		95.6	70-130	1.25	25		
Methylene Chloride	0.0179	0.020	mg/Kg wet	0.02000		89.6	40-160	2.64	25	J	†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.2000		100	70-160	0.229	25		†
Naphthalene	0.0168	0.0040	mg/Kg wet	0.02000		83.9	40-130	0.00	25		†
n-Propylbenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3	70-130	4.21	25		
Styrene	0.0202	0.0020	mg/Kg wet	0.02000		101	70-130	1.08	25		
1,1,2,2-Tetrachloroethane	0.0215	0.0010	mg/Kg wet	0.02000		108	70-130	2.35	25		
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.02000		89.9	70-130	1.22	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 B391435 - SW-846 5035											
LCS Dup (B391435-BSD1)				Prepared & Analyzed: 11/05/24							
Toluene	0.0170	0.0020	mg/Kg wet	0.02000		85.2		70-130	6.80	25	
1,2,3-Trichlorobenzene	0.0177	0.0020	mg/Kg wet	0.02000		88.3		70-130	2.87	25	
1,2,4-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.02000		82.1		70-130	2.41	25	
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.02000		90.8		70-130	3.04	25	
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.02000		101		70-130	9.60	25	
Trichloroethylene	0.0181	0.0020	mg/Kg wet	0.02000		90.5		70-130	3.37	25	
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.02000		90.2		70-130	10.0	25	
1,2,3-Trichloropropane	0.0226	0.0020	mg/Kg wet	0.02000		113		70-130	0.890	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0193	0.010	mg/Kg wet	0.02000		96.5		70-130	1.95	25	
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.02000		95.9		70-130	3.89	25	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.02000		95.3		70-130	1.87	25	
Vinyl Chloride	0.0164	0.010	mg/Kg wet	0.02000		82.2		40-130	5.56	25	†
m+p Xylene	0.0381	0.0040	mg/Kg wet	0.04000		95.2		70-130	1.25	25	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.02000		98.7		70-130	1.71	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0482*		mg/Kg wet	0.05000		96.4		70-130			
Surrogate: Toluene-d8	*0.0498*		mg/Kg wet	0.05000		99.7		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.05000		98.2		70-130			
LCS Dup (B391435-BSD2)				Prepared & Analyzed: 11/05/24							
Ethanol	0.0932	0.20	mg/Kg wet	0.2000		46.6		40-160	4.79	25	V-05, J
Surrogate: 1,2-Dichloroethane-d4	*0.0497*		mg/Kg wet	0.05000		99.3		70-130			
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.05000		99.2		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0484*		mg/Kg wet	0.05000		96.8		70-130			
Matrix Spike (B391435-MS1)	**Source: 24K0186-07**			Prepared & Analyzed: 11/05/24							
Acetone	0.167	0.096	mg/Kg dry	0.1913	ND	87.4		70-130			
tert-Amyl Alcohol (TAA)	0.171	0.019	mg/Kg dry	0.1913	ND	89.2		70-130			
tert-Amyl Ethyl Ether (TAEE)	0.0152	0.0019	mg/Kg dry	0.01913	ND	79.4		70-130			
tert-Amyl Methyl Ether (TAME)	0.0193	0.00096	mg/Kg dry	0.01913	ND	101		70-130			
Benzene	0.0155	0.0019	mg/Kg dry	0.01913	ND	81.2		70-130			
Bromochloromethane	0.0185	0.0019	mg/Kg dry	0.01913	ND	96.8		70-130			
Bromodichloromethane	0.0174	0.0019	mg/Kg dry	0.01913	ND	91.1		70-130			
Bromoform	0.0193	0.0019	mg/Kg dry	0.01913	ND	101		70-130			
Bromomethane	0.0125	0.0096	mg/Kg dry	0.01913	ND	**65.3**	*	70-130			MS-07A
2-Butanone (MEK)	0.166	0.038	mg/Kg dry	0.1913	ND	86.8		70-130			
tert-Butyl Alcohol (TBA)	0.153	0.096	mg/Kg dry	0.1913	ND	79.8		70-130			
n-Butylbenzene	0.0131	0.0019	mg/Kg dry	0.01913	ND	**68.6**	*	70-130			MS-07A
sec-Butylbenzene	0.0151	0.0019	mg/Kg dry	0.01913	ND	79.2		70-130			
tert-Butylbenzene	0.0156	0.0019	mg/Kg dry	0.01913	ND	81.4		70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0181	0.00096	mg/Kg dry	0.01913	ND	94.8		70-130			
Carbon Disulfide	ND	0.019	mg/Kg dry	0.01913	ND		*	70-130			MS-07A
Carbon Tetrachloride	0.0160	0.0019	mg/Kg dry	0.01913	ND	83.6		70-130			
Chlorobenzene	0.0159	0.0019	mg/Kg dry	0.01913	ND	83.0		70-130			
Chlorodibromomethane	0.0181	0.00096	mg/Kg dry	0.01913	ND	94.4		70-130			
Chloroethane	0.0120	0.019	mg/Kg dry	0.01913	ND	**62.6**	*	70-130			MS-07A, J
Chloroform	0.0174	0.0038	mg/Kg dry	0.01913	ND	91.0		70-130			
Chloromethane	0.00845	0.0096	mg/Kg dry	0.01913	ND	**44.2**	*	70-130			MS-07A, J
Cyclohexane	0.0122	0.0096	mg/Kg dry	0.01913	ND	**63.9**	*	70-130			MS-07A
1,2-Dibromo-3-chloropropane (DBCP)	0.0167	0.0038	mg/Kg dry	0.01913	ND	87.3		70-130			
1,2-Dibromoethane (EDB)	0.0179	0.00096	mg/Kg dry	0.01913	ND	93.7		70-130			
1,2-Dichlorobenzene	0.0159	0.0019	mg/Kg dry	0.01913	ND	83.0		70-130			
1,3-Dichlorobenzene	0.0152	0.0019	mg/Kg dry	0.01913	ND	79.4		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 B391435 - SW-846 5035											
Matrix Spike (B391435-MS1)		**Source: 24K0186-07**		Prepared & Analyzed: 11/05/24							
1,4-Dichlorobenzene	0.0155	0.0019	mg/Kg dry	0.01913	ND	80.9		70-130			
Dichlorodifluoromethane (Freon 12)	0.00960	0.019	mg/Kg dry	0.01913	ND	**50.2**	*	70-130			MS-07A, J
1,1-Dichloroethane	0.0164	0.0019	mg/Kg dry	0.01913	ND	85.5		70-130			
1,2-Dichloroethane	0.0171	0.0019	mg/Kg dry	0.01913	ND	89.6		70-130			
1,1-Dichloroethylene	0.0135	0.0038	mg/Kg dry	0.01913	ND	70.5		70-130			
cis-1,2-Dichloroethylene	0.0159	0.0019	mg/Kg dry	0.01913	ND	83.0		70-130			
trans-1,2-Dichloroethylene	0.0133	0.0019	mg/Kg dry	0.01913	ND	**69.5**	*	70-130			MS-07A
1,2-Dichloropropane	0.0166	0.0019	mg/Kg dry	0.01913	ND	87.0		70-130			
cis-1,3-Dichloropropene	0.0164	0.00096	mg/Kg dry	0.01913	ND	85.6		70-130			
trans-1,3-Dichloropropene	0.0174	0.00096	mg/Kg dry	0.01913	ND	91.1		70-130			
Diisopropyl Ether (DIPE)	0.0179	0.00096	mg/Kg dry	0.01913	ND	93.8		70-130			
Ethanol	ND	0.19	mg/Kg dry	0.1913	ND		*	70-130			V-05, MS-07A
Ethylbenzene	0.0153	0.0019	mg/Kg dry	0.01913	ND	80.1		70-130			
2-Hexanone (MBK)	0.173	0.019	mg/Kg dry	0.1913	ND	90.6		70-130			
Isopropylbenzene (Cumene)	0.0159	0.0019	mg/Kg dry	0.01913	ND	83.2		70-130			
p-Isopropyltoluene (p-Cymene)	0.0149	0.0019	mg/Kg dry	0.01913	ND	77.9		70-130			
Methyl Acetate	0.0174	0.0019	mg/Kg dry	0.01913	ND	90.9		70-130			
Methyl tert-Butyl Ether (MTBE)	0.0170	0.0038	mg/Kg dry	0.01913	ND	89.1		70-130			
Methyl Cyclohexane	0.0116	0.0019	mg/Kg dry	0.01913	ND	**60.7**	*	70-130			MS-07A
Methylene Chloride	0.0145	0.019	mg/Kg dry	0.01913	ND	75.8		70-130			J
4-Methyl-2-pentanone (MIBK)	0.176	0.019	mg/Kg dry	0.1913	ND	91.8		70-130			
Naphthalene	0.0119	0.0038	mg/Kg dry	0.01913	ND	**62.3**	*	70-130			MS-07A
n-Propylbenzene	0.0150	0.0019	mg/Kg dry	0.01913	ND	78.4		70-130			
Styrene	0.0167	0.0019	mg/Kg dry	0.01913	ND	87.3		70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.00096	mg/Kg dry	0.01913	ND	104		70-130			
Tetrachloroethylene	0.0138	0.0019	mg/Kg dry	0.01913	ND	72.0		70-130			
Toluene	0.0141	0.0019	mg/Kg dry	0.01913	ND	73.7		70-130			
1,2,3-Trichlorobenzene	0.0117	0.0019	mg/Kg dry	0.01913	ND	**61.1**	*	70-130			MS-07A
1,2,4-Trichlorobenzene	0.0121	0.0019	mg/Kg dry	0.01913	ND	**63.1**	*	70-130			MS-07A
1,1,1-Trichloroethane	0.0162	0.0019	mg/Kg dry	0.01913	ND	84.9		70-130			
1,1,2-Trichloroethane	0.0193	0.0019	mg/Kg dry	0.01913	ND	101		70-130			
Trichloroethylene	0.0152	0.0019	mg/Kg dry	0.01913	ND	79.6		70-130			
Trichlorofluoromethane (Freon 11)	0.0143	0.0096	mg/Kg dry	0.01913	ND	75.0		70-130			
1,2,3-Trichloropropane	0.0187	0.0019	mg/Kg dry	0.01913	ND	97.8		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0166	0.0096	mg/Kg dry	0.01913	ND	86.8		70-130			
1,2,4-Trimethylbenzene	0.0151	0.0019	mg/Kg dry	0.01913	ND	78.9		70-130			
1,3,5-Trimethylbenzene	0.0151	0.0019	mg/Kg dry	0.01913	ND	79.2		70-130			
Vinyl Chloride	0.00958	0.0096	mg/Kg dry	0.01913	ND	**50.1**	*	70-130			MS-07A
m+p Xylene	0.0305	0.0038	mg/Kg dry	0.03825	ND	79.7		70-130			
o-Xylene	0.0161	0.0019	mg/Kg dry	0.01913	ND	84.0		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0487*		mg/Kg dry	0.04782		102		70-130			
Surrogate: Toluene-d8	*0.0478*		mg/Kg dry	0.04782		100		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0475*		mg/Kg dry	0.04782		99.2		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 B391435 - SW-846 5035											
Matrix Spike Dup (B391435-MSD1)	**Source: 24K0186-07**			Prepared & Analyzed: 11/05/24							
Acetone	0.170	0.10	mg/Kg dry	0.2044	ND	83.4		70-130	1.96	30	
tert-Amyl Alcohol (TAA)	0.167	0.020	mg/Kg dry	0.2044	ND	81.7		70-130	2.14	30	
tert-Amyl Ethyl Ether (TAEE)	0.0161	0.0020	mg/Kg dry	0.02044	ND	78.9		70-130	6.02	30	
tert-Amyl Methyl Ether (TAME)	0.0203	0.0010	mg/Kg dry	0.02044	ND	99.3		70-130	5.06	30	
Benzene	0.0159	0.0020	mg/Kg dry	0.02044	ND	77.8		70-130	2.38	30	
Bromochloromethane	0.0196	0.0020	mg/Kg dry	0.02044	ND	95.8		70-130	5.62	30	
Bromodichloromethane	0.0178	0.0020	mg/Kg dry	0.02044	ND	87.3		70-130	2.40	30	
Bromoform	0.0216	0.0020	mg/Kg dry	0.02044	ND	106		70-130	11.6	30	
Bromomethane	0.0116	0.010	mg/Kg dry	0.02044	ND	**56.7**	*	70-130	7.46	30	MS-07A
2-Butanone (MEK)	0.170	0.041	mg/Kg dry	0.2044	ND	83.4		70-130	2.59	30	
tert-Butyl Alcohol (TBA)	0.169	0.10	mg/Kg dry	0.2044	ND	82.5		70-130	9.98	30	
n-Butylbenzene	0.0141	0.0020	mg/Kg dry	0.02044	ND	**69.1**	*	70-130	7.38	30	MS-07A
sec-Butylbenzene	0.0162	0.0020	mg/Kg dry	0.02044	ND	79.4		70-130	6.91	30	
tert-Butylbenzene	0.0165	0.0020	mg/Kg dry	0.02044	ND	80.6		70-130	5.67	30	
tert-Butyl Ethyl Ether (TBEE)	0.0189	0.0010	mg/Kg dry	0.02044	ND	92.5		70-130	4.20	30	
Carbon Disulfide	ND	0.020	mg/Kg dry	0.02044	ND		*	70-130		30	MS-07A
Carbon Tetrachloride	0.0163	0.0020	mg/Kg dry	0.02044	ND	79.8		70-130	2.00	30	
Chlorobenzene	0.0168	0.0020	mg/Kg dry	0.02044	ND	82.4		70-130	5.93	30	
Chlorodibromomethane	0.0197	0.0010	mg/Kg dry	0.02044	ND	96.3		70-130	8.64	30	
Chloroethane	0.0122	0.020	mg/Kg dry	0.02044	ND	**59.7**	*	70-130	1.91	30	MS-07A, J
Chloroform	0.0185	0.0041	mg/Kg dry	0.02044	ND	90.5		70-130	6.10	30	
Chloromethane	0.00820	0.010	mg/Kg dry	0.02044	ND	**40.1**	*	70-130	3.08	30	MS-07A, J
Cyclohexane	0.0125	0.010	mg/Kg dry	0.02044	ND	**61.0**	*	70-130	2.01	30	MS-07A
1,2-Dibromo-3-chloropropane (DBCP)	0.0168	0.0041	mg/Kg dry	0.02044	ND	82.1		70-130	0.516	30	
1,2-Dibromoethane (EDB)	0.0177	0.0010	mg/Kg dry	0.02044	ND	86.8		70-130	0.992	30	
1,2-Dichlorobenzene	0.0168	0.0020	mg/Kg dry	0.02044	ND	82.3		70-130	5.81	30	
1,3-Dichlorobenzene	0.0162	0.0020	mg/Kg dry	0.02044	ND	79.2		70-130	6.40	30	
1,4-Dichlorobenzene	0.0167	0.0020	mg/Kg dry	0.02044	ND	81.5		70-130	7.39	30	
Dichlorodifluoromethane (Freon 12)	0.00924	0.020	mg/Kg dry	0.02044	ND	**45.2**	*	70-130	3.83	30	MS-07A, J
1,1-Dichloroethane	0.0167	0.0020	mg/Kg dry	0.02044	ND	81.8		70-130	2.23	30	
1,2-Dichloroethane	0.0177	0.0020	mg/Kg dry	0.02044	ND	86.6		70-130	3.25	30	
1,1-Dichloroethylene	0.0133	0.0041	mg/Kg dry	0.02044	ND	**64.9**	*	70-130	1.62	30	MS-24
cis-1,2-Dichloroethylene	0.0163	0.0020	mg/Kg dry	0.02044	ND	79.6		70-130	2.47	30	
trans-1,2-Dichloroethylene	0.0134	0.0020	mg/Kg dry	0.02044	ND	**65.6**	*	70-130	0.882	30	MS-07A
1,2-Dichloropropane	0.0170	0.0020	mg/Kg dry	0.02044	ND	83.1		70-130	2.07	30	
cis-1,3-Dichloropropene	0.0168	0.0010	mg/Kg dry	0.02044	ND	82.3		70-130	2.73	30	
trans-1,3-Dichloropropene	0.0186	0.0010	mg/Kg dry	0.02044	ND	91.1		70-130	6.65	30	
Diisopropyl Ether (DIPE)	0.0181	0.0010	mg/Kg dry	0.02044	ND	88.4		70-130	0.728	30	
Ethanol	ND	0.20	mg/Kg dry	0.2044	ND		*	70-130		30	MS-07A, V-05
Ethylbenzene	0.0163	0.0020	mg/Kg dry	0.02044	ND	79.5		70-130	5.90	30	
2-Hexanone (MBK)	0.179	0.020	mg/Kg dry	0.2044	ND	87.8		70-130	3.54	30	
Isopropylbenzene (Cumene)	0.0166	0.0020	mg/Kg dry	0.02044	ND	81.0		70-130	3.98	30	
p-Isopropyltoluene (p-Cymene)	0.0157	0.0020	mg/Kg dry	0.02044	ND	76.8		70-130	5.23	30	
Methyl Acetate	0.0176	0.0020	mg/Kg dry	0.02044	ND	86.1		70-130	1.23	30	
Methyl tert-Butyl Ether (MTBE)	0.0179	0.0041	mg/Kg dry	0.02044	ND	87.5		70-130	4.84	30	
Methyl Cyclohexane	0.0123	0.0020	mg/Kg dry	0.02044	ND	**60.0**	*	70-130	5.50	30	MS-07A
Methylene Chloride	0.0146	0.020	mg/Kg dry	0.02044	ND	71.4		70-130	0.677	30	J
4-Methyl-2-pentanone (MIBK)	0.186	0.020	mg/Kg dry	0.2044	ND	90.8		70-130	5.48	30	
Naphthalene	0.0117	0.0041	mg/Kg dry	0.02044	ND	**57.2**	*	70-130	1.88	30	MS-07A
n-Propylbenzene	0.0163	0.0020	mg/Kg dry	0.02044	ND	79.6		70-130	8.17	30	
Styrene	0.0179	0.0020	mg/Kg dry	0.02044	ND	87.4		70-130	6.77	30	
1,1,2,2-Tetrachloroethane	0.0209	0.0010	mg/Kg dry	0.02044	ND	102		70-130	5.01	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 B391435 - SW-846 5035											
Matrix Spike Dup (B391435-MSD1)	**Source: 24K0186-07**			Prepared & Analyzed: 11/05/24							
Tetrachloroethylene	0.0147	0.0020	mg/Kg dry	0.02044	ND	72.0		70-130	6.65	30	
Toluene	0.0146	0.0020	mg/Kg dry	0.02044	ND	71.5		70-130	3.63	30	
1,2,3-Trichlorobenzene	0.0120	0.0020	mg/Kg dry	0.02044	ND	**58.7**	*	70-130	2.65	30	MS-07A
1,2,4-Trichlorobenzene	0.0127	0.0020	mg/Kg dry	0.02044	ND	**62.0**	*	70-130	4.90	30	MS-07A
1,1,1-Trichloroethane	0.0168	0.0020	mg/Kg dry	0.02044	ND	82.2		70-130	3.42	30	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg dry	0.02044	ND	98.3		70-130	4.24	30	
Trichloroethylene	0.0153	0.0020	mg/Kg dry	0.02044	ND	74.9		70-130	0.571	30	
Trichlorofluoromethane (Freon 11)	0.0143	0.010	mg/Kg dry	0.02044	ND	**69.8**	*	70-130	0.529	30	MS-24
1,2,3-Trichloropropane	0.0201	0.0020	mg/Kg dry	0.02044	ND	98.3		70-130	7.16	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0165	0.010	mg/Kg dry	0.02044	ND	80.5		70-130	0.878	30	
1,2,4-Trimethylbenzene	0.0156	0.0020	mg/Kg dry	0.02044	ND	76.5		70-130	3.57	30	
1,3,5-Trimethylbenzene	0.0164	0.0020	mg/Kg dry	0.02044	ND	80.0		70-130	7.66	30	
Vinyl Chloride	0.00975	0.010	mg/Kg dry	0.02044	ND	**47.7**	*	70-130	1.75	30	MS-07A, J
m+p Xylene	0.0327	0.0041	mg/Kg dry	0.04089	ND	79.9		70-130	6.97	30	
o-Xylene	0.0177	0.0020	mg/Kg dry	0.02044	ND	86.6		70-130	9.70	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0506*		mg/Kg dry	0.05111		99.1		70-130			
Surrogate: Toluene-d8	*0.0508*		mg/Kg dry	0.05111		99.3		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0509*		mg/Kg dry	0.05111		99.6		70-130			
Batch B391458 - SW-846 5035											
Blank (B391458-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Acetone	ND	2.5	mg/Kg wet								V-05
tert-Amyl Alcohol (TAA)	ND	1.0	mg/Kg wet								
tert-Amyl Ethyl Ether (TAEE)	ND	0.10	mg/Kg wet								
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet								
Benzene	ND	0.050	mg/Kg wet								
Bromochloromethane	ND	0.050	mg/Kg wet								
Bromodichloromethane	ND	0.050	mg/Kg wet								
Bromoform	ND	0.050	mg/Kg wet								
Bromomethane	ND	0.10	mg/Kg wet								
2-Butanone (MEK)	ND	1.0	mg/Kg wet								
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet								
n-Butylbenzene	ND	0.050	mg/Kg wet								
sec-Butylbenzene	ND	0.050	mg/Kg wet								
tert-Butylbenzene	ND	0.050	mg/Kg wet								
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet								
Carbon Disulfide	ND	0.25	mg/Kg wet								
Carbon Tetrachloride	ND	0.050	mg/Kg wet								
Chlorobenzene	ND	0.050	mg/Kg wet								
Chlorodibromomethane	ND	0.025	mg/Kg wet								
Chloroethane	ND	0.10	mg/Kg wet								
Chloroform	ND	0.10	mg/Kg wet								
Chloromethane	ND	0.10	mg/Kg wet								
Cyclohexane	ND	0.10	mg/Kg wet								
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet								
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet								
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet								
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet								
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet								
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet								
1,1-Dichloroethane	ND	0.050	mg/Kg wet								

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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 B391458 - SW-846 5035										
Blank (B391458-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
Ethanol	ND	10	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl Acetate	ND	0.50	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methyl Cyclohexane	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0242*		mg/Kg wet	0.02500		97.0	70-130			
Surrogate: Toluene-d8	*0.0253*		mg/Kg wet	0.02500		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0253*		mg/Kg wet	0.02500		101	70-130			
LCS (B391458-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24						
Acetone	3.95	2.5	mg/Kg wet	5.000		79.0	70-160			V-05 †
tert-Amyl Alcohol (TAA)	5.63	1.0	mg/Kg wet	5.000		113	70-130			
tert-Amyl Ethyl Ether (TAEE)	0.540	0.10	mg/Kg wet	0.5000		108	70-130			
tert-Amyl Methyl Ether (TAME)	0.552	0.025	mg/Kg wet	0.5000		110	70-130			
Benzene	0.606	0.050	mg/Kg wet	0.5000		121	70-130			V-06
Bromochloromethane	0.599	0.050	mg/Kg wet	0.5000		120	70-130			
Bromodichloromethane	0.577	0.050	mg/Kg wet	0.5000		115	70-130			
Bromoform	0.539	0.050	mg/Kg wet	0.5000		108	70-130			
Bromomethane	0.592	0.10	mg/Kg wet	0.5000		118	40-130			†

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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 B391458 - SW-846 5035											
LCS (B391458-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24							
2-Butanone (MEK)	4.84	1.0	mg/Kg wet	5.000		96.7	70-160				†
tert-Butyl Alcohol (TBA)	5.60	1.0	mg/Kg wet	5.000		112	40-130				†
n-Butylbenzene	0.564	0.050	mg/Kg wet	0.5000		113	70-130				
sec-Butylbenzene	0.546	0.050	mg/Kg wet	0.5000		109	70-130				
tert-Butylbenzene	0.535	0.050	mg/Kg wet	0.5000		107	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.558	0.025	mg/Kg wet	0.5000		112	70-130				
Carbon Disulfide	5.82	0.25	mg/Kg wet	5.000		116	70-130				
Carbon Tetrachloride	0.609	0.050	mg/Kg wet	0.5000		122	70-130			V-20	
Chlorobenzene	0.580	0.050	mg/Kg wet	0.5000		116	70-130				
Chlorodibromomethane	0.578	0.025	mg/Kg wet	0.5000		116	70-130				
Chloroethane	0.548	0.10	mg/Kg wet	0.5000		110	70-130				
Chloroform	0.554	0.10	mg/Kg wet	0.5000		111	70-130				
Chloromethane	0.532	0.10	mg/Kg wet	0.5000		106	70-130				
Cyclohexane	0.560	0.10	mg/Kg wet	0.5000		112	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.512	0.25	mg/Kg wet	0.5000		102	70-130				
1,2-Dibromoethane (EDB)	0.598	0.025	mg/Kg wet	0.5000		120	70-130				
1,2-Dichlorobenzene	0.578	0.050	mg/Kg wet	0.5000		116	70-130				
1,3-Dichlorobenzene	0.551	0.050	mg/Kg wet	0.5000		110	70-130				
1,4-Dichlorobenzene	0.544	0.050	mg/Kg wet	0.5000		109	70-130				
Dichlorodifluoromethane (Freon 12)	0.649	0.10	mg/Kg wet	0.5000		130	40-160			V-20	†
1,1-Dichloroethane	0.590	0.050	mg/Kg wet	0.5000		118	70-130				
1,2-Dichloroethane	0.507	0.050	mg/Kg wet	0.5000		101	70-130				
1,1-Dichloroethylene	0.508	0.050	mg/Kg wet	0.5000		102	70-130				
cis-1,2-Dichloroethylene	0.592	0.050	mg/Kg wet	0.5000		118	70-130				
trans-1,2-Dichloroethylene	0.590	0.050	mg/Kg wet	0.5000		118	70-130				
1,2-Dichloropropane	0.582	0.050	mg/Kg wet	0.5000		116	70-130				
cis-1,3-Dichloropropene	0.576	0.025	mg/Kg wet	0.5000		115	70-130				
trans-1,3-Dichloropropene	0.548	0.025	mg/Kg wet	0.5000		110	70-130				
Diisopropyl Ether (DIPE)	0.552	0.025	mg/Kg wet	0.5000		110	70-130				
Ethanol	4.88	10	mg/Kg wet	5.000		97.5	40-160			J	
Ethylbenzene	0.580	0.050	mg/Kg wet	0.5000		116	70-130				
2-Hexanone (MBK)	5.65	0.50	mg/Kg wet	5.000		113	70-160				†
Isopropylbenzene (Cumene)	0.568	0.050	mg/Kg wet	0.5000		114	70-130				
p-Isopropyltoluene (p-Cymene)	0.546	0.050	mg/Kg wet	0.5000		109	70-130				
Methyl Acetate	0.552	0.50	mg/Kg wet	0.5000		110	70-130				
Methyl tert-Butyl Ether (MTBE)	0.562	0.050	mg/Kg wet	0.5000		112	70-130				
Methyl Cyclohexane	0.550	0.050	mg/Kg wet	0.5000		110	70-130				
Methylene Chloride	0.519	0.25	mg/Kg wet	0.5000		104	40-160				†
4-Methyl-2-pentanone (MIBK)	5.72	0.50	mg/Kg wet	5.000		114	70-160				†
Naphthalene	0.510	0.10	mg/Kg wet	0.5000		102	40-130				†
n-Propylbenzene	0.568	0.050	mg/Kg wet	0.5000		114	70-130				
Styrene	0.568	0.050	mg/Kg wet	0.5000		114	70-130				
1,1,2,2-Tetrachloroethane	0.594	0.025	mg/Kg wet	0.5000		119	70-130				
Tetrachloroethylene	0.590	0.050	mg/Kg wet	0.5000		118	70-130				
Toluene	0.590	0.050	mg/Kg wet	0.5000		118	70-130				
1,2,3-Trichlorobenzene	0.496	0.25	mg/Kg wet	0.5000		99.1	70-130				
1,2,4-Trichlorobenzene	0.519	0.050	mg/Kg wet	0.5000		104	70-130				
1,1,1-Trichloroethane	0.594	0.050	mg/Kg wet	0.5000		119	70-130				
1,1,2-Trichloroethane	0.587	0.050	mg/Kg wet	0.5000		117	70-130				
Trichloroethylene	0.594	0.050	mg/Kg wet	0.5000		119	70-130				
Trichlorofluoromethane (Freon 11)	0.532	0.10	mg/Kg wet	0.5000		106	70-130				
1,2,3-Trichloropropane	0.568	0.10	mg/Kg wet	0.5000		114	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 B391458 - SW-846 5035												
LCS (B391458-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.587	0.050	mg/Kg wet	0.5000		117		70-130				
1,2,4-Trimethylbenzene	0.540	0.050	mg/Kg wet	0.5000		108		70-130				
1,3,5-Trimethylbenzene	0.551	0.050	mg/Kg wet	0.5000		110		70-130				
Vinyl Chloride	0.595	0.10	mg/Kg wet	0.5000		119		40-130				†
m+p Xylene	1.15	0.10	mg/Kg wet	1.000		115		70-130				
o-Xylene	0.575	0.050	mg/Kg wet	0.5000		115		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0250*		mg/Kg wet	0.02500		100		70-130				
Surrogate: Toluene-d8	*0.0250*		mg/Kg wet	0.02500		99.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0261*		mg/Kg wet	0.02500		105		70-130				
LCS Dup (B391458-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24								
Acetone	3.37	2.5	mg/Kg wet	5.000		**67.4**	*	70-160	15.8	25	L-07, V-05	†
tert-Amyl Alcohol (TAA)	4.99	1.0	mg/Kg wet	5.000		99.9		70-130	12.0	25		
tert-Amyl Ethyl Ether (TAEE)	0.530	0.10	mg/Kg wet	0.5000		106		70-130	1.87	25		
tert-Amyl Methyl Ether (TAME)	0.528	0.025	mg/Kg wet	0.5000		106		70-130	4.35	25		
Benzene	0.588	0.050	mg/Kg wet	0.5000		118		70-130	3.10	25	V-06	
Bromochloromethane	0.568	0.050	mg/Kg wet	0.5000		114		70-130	5.40	25		
Bromodichloromethane	0.554	0.050	mg/Kg wet	0.5000		111		70-130	3.98	25		
Bromoform	0.511	0.050	mg/Kg wet	0.5000		102		70-130	5.33	25		
Bromomethane	0.580	0.10	mg/Kg wet	0.5000		116		40-130	1.96	25		†
2-Butanone (MEK)	4.55	1.0	mg/Kg wet	5.000		91.0		70-160	6.02	25		†
tert-Butyl Alcohol (TBA)	4.79	1.0	mg/Kg wet	5.000		95.9		40-130	15.5	25		†
n-Butylbenzene	0.547	0.050	mg/Kg wet	0.5000		109		70-130	2.97	25		
sec-Butylbenzene	0.548	0.050	mg/Kg wet	0.5000		110		70-130	0.548	25		
tert-Butylbenzene	0.536	0.050	mg/Kg wet	0.5000		107		70-160	0.187	25		†
tert-Butyl Ethyl Ether (TBEE)	0.535	0.025	mg/Kg wet	0.5000		107		70-130	4.21	25		
Carbon Disulfide	5.82	0.25	mg/Kg wet	5.000		116		70-130	0.0172	25		
Carbon Tetrachloride	0.602	0.050	mg/Kg wet	0.5000		120		70-130	1.07	25	V-20	
Chlorobenzene	0.552	0.050	mg/Kg wet	0.5000		110		70-130	5.03	25		
Chlorodibromomethane	0.552	0.025	mg/Kg wet	0.5000		110		70-130	4.69	25		
Chloroethane	0.514	0.10	mg/Kg wet	0.5000		103		70-130	6.31	25		
Chloroform	0.538	0.10	mg/Kg wet	0.5000		108		70-130	3.11	25		
Chloromethane	0.528	0.10	mg/Kg wet	0.5000		106		70-130	0.943	25		
Cyclohexane	0.555	0.10	mg/Kg wet	0.5000		111		70-130	0.897	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.464	0.25	mg/Kg wet	0.5000		92.9		70-130	9.63	25		
1,2-Dibromoethane (EDB)	0.560	0.025	mg/Kg wet	0.5000		112		70-130	6.47	25		
1,2-Dichlorobenzene	0.538	0.050	mg/Kg wet	0.5000		108		70-130	7.35	25		
1,3-Dichlorobenzene	0.554	0.050	mg/Kg wet	0.5000		111		70-130	0.453	25		
1,4-Dichlorobenzene	0.538	0.050	mg/Kg wet	0.5000		108		70-130	1.02	25		
Dichlorodifluoromethane (Freon 12)	0.662	0.10	mg/Kg wet	0.5000		132		40-160	1.98	25	V-20	†
1,1-Dichloroethane	0.591	0.050	mg/Kg wet	0.5000		118		70-130	0.169	25		
1,2-Dichloroethane	0.500	0.050	mg/Kg wet	0.5000		100		70-130	1.29	25		
1,1-Dichloroethylene	0.528	0.050	mg/Kg wet	0.5000		106		70-130	3.67	25		
cis-1,2-Dichloroethylene	0.590	0.050	mg/Kg wet	0.5000		118		70-130	0.338	25		
trans-1,2-Dichloroethylene	0.596	0.050	mg/Kg wet	0.5000		119		70-130	1.01	25		
1,2-Dichloropropane	0.559	0.050	mg/Kg wet	0.5000		112		70-130	4.12	25		
cis-1,3-Dichloropropene	0.556	0.025	mg/Kg wet	0.5000		111		70-130	3.53	25		
trans-1,3-Dichloropropene	0.523	0.025	mg/Kg wet	0.5000		105		70-130	4.67	25		
Diisopropyl Ether (DIPE)	0.532	0.025	mg/Kg wet	0.5000		106		70-130	3.69	25		
Ethanol	4.52	10	mg/Kg wet	5.000		90.4		40-160	7.60	25	J	
Ethylbenzene	0.560	0.050	mg/Kg wet	0.5000		112		70-130	3.68	25		
2-Hexanone (MBK)	5.27	0.50	mg/Kg wet	5.000		105		70-160	6.96	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 B391458 - SW-846 5035										
LCS Dup (B391458-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24						
Isopropylbenzene (Cumene)	0.550	0.050	mg/Kg wet	0.5000		110	70-130	3.13	25	
p-Isopropyltoluene (p-Cymene)	0.531	0.050	mg/Kg wet	0.5000		106	70-130	2.69	25	
Methyl Acetate	0.524	0.50	mg/Kg wet	0.5000		105	70-130	5.39	25	
Methyl tert-Butyl Ether (MTBE)	0.520	0.050	mg/Kg wet	0.5000		104	70-130	7.77	25	
Methyl Cyclohexane	0.562	0.050	mg/Kg wet	0.5000		112	70-130	2.25	25	
Methylene Chloride	0.583	0.25	mg/Kg wet	0.5000		117	40-160	11.6	25	†
4-Methyl-2-pentanone (MIBK)	5.37	0.50	mg/Kg wet	5.000		107	70-160	6.41	25	†
Naphthalene	0.446	0.10	mg/Kg wet	0.5000		89.3	40-130	13.3	25	†
n-Propylbenzene	0.556	0.050	mg/Kg wet	0.5000		111	70-130	2.14	25	
Styrene	0.552	0.050	mg/Kg wet	0.5000		110	70-130	2.77	25	
1,1,2,2-Tetrachloroethane	0.534	0.025	mg/Kg wet	0.5000		107	70-130	10.7	25	
Tetrachloroethylene	0.594	0.050	mg/Kg wet	0.5000		119	70-130	0.591	25	
Toluene	0.592	0.050	mg/Kg wet	0.5000		118	70-130	0.338	25	
1,2,3-Trichlorobenzene	0.469	0.25	mg/Kg wet	0.5000		93.8	70-130	5.50	25	
1,2,4-Trichlorobenzene	0.494	0.050	mg/Kg wet	0.5000		98.8	70-130	4.94	25	
1,1,1-Trichloroethane	0.578	0.050	mg/Kg wet	0.5000		116	70-130	2.64	25	
1,1,2-Trichloroethane	0.569	0.050	mg/Kg wet	0.5000		114	70-130	3.11	25	
Trichloroethylene	0.564	0.050	mg/Kg wet	0.5000		113	70-130	5.10	25	
Trichlorofluoromethane (Freon 11)	0.503	0.10	mg/Kg wet	0.5000		101	70-130	5.70	25	
1,2,3-Trichloropropane	0.514	0.10	mg/Kg wet	0.5000		103	70-130	9.97	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.593	0.050	mg/Kg wet	0.5000		119	70-130	1.02	25	
1,2,4-Trimethylbenzene	0.522	0.050	mg/Kg wet	0.5000		104	70-130	3.30	25	
1,3,5-Trimethylbenzene	0.530	0.050	mg/Kg wet	0.5000		106	70-130	3.79	25	
Vinyl Chloride	0.588	0.10	mg/Kg wet	0.5000		118	40-130	1.10	25	†
m+p Xylene	1.12	0.10	mg/Kg wet	1.000		112	70-130	3.13	25	
o-Xylene	0.559	0.050	mg/Kg wet	0.5000		112	70-130	2.82	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0239*		mg/Kg wet	0.02500		95.6	70-130			
Surrogate: Toluene-d8	*0.0251*		mg/Kg wet	0.02500		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0252*		mg/Kg wet	0.02500		101	70-130			
Batch B391462 - SW-846 5030B										
Blank (B391462-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
Acetone	ND	50	µg/L							V-05
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							

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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 B391462 - SW-846 5030B										
Blank (B391462-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24						
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							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.00		97.0	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.00		101	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 B391462 - SW-846 5030B											
Blank (B391462-BLK1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.00		101	70-130				
LCS (B391462-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Acetone	79.0	50	µg/L	100.0		79.0	70-160			V-05	†
tert-Amyl Alcohol (TAA)	113	5.0	µg/L	100.0		113	70-130				
tert-Amyl Ethyl Ether (TAEE)	10.8	0.50	µg/L	10.00		108	70-130				
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.00		110	70-130				
Benzene	12.1	1.0	µg/L	10.00		121	70-130			V-20	
Bromochloromethane	12.0	1.0	µg/L	10.00		120	70-130				
Bromodichloromethane	11.5	0.50	µg/L	10.00		115	70-130				
Bromoform	10.8	1.0	µg/L	10.00		108	70-130				
Bromomethane	11.8	2.0	µg/L	10.00		118	40-160				†
2-Butanone (MEK)	96.7	20	µg/L	100.0		96.7	40-160				†
tert-Butyl Alcohol (TBA)	112	20	µg/L	100.0		112	40-160				†
n-Butylbenzene	11.3	1.0	µg/L	10.00		113	70-130				
sec-Butylbenzene	10.9	1.0	µg/L	10.00		109	70-130				
tert-Butylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
tert-Butyl Ethyl Ether (TBEE)	11.2	0.50	µg/L	10.00		112	70-130				
Carbon Disulfide	116	5.0	µg/L	100.0		116	70-130				
Carbon Tetrachloride	12.2	5.0	µg/L	10.00		122	70-130			V-20	
Chlorobenzene	11.6	1.0	µg/L	10.00		116	70-130				
Chlorodibromomethane	11.6	0.50	µg/L	10.00		116	70-130				
Chloroethane	11.0	2.0	µg/L	10.00		110	70-130				
Chloroform	11.1	2.0	µg/L	10.00		111	70-130				
Chloromethane	10.6	2.0	µg/L	10.00		106	40-160				†
Cyclohexane	11.2	5.0	µg/L	10.00		112	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00		102	70-130				
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.00		120	70-130				
1,2-Dichlorobenzene	11.6	1.0	µg/L	10.00		116	70-130				
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130				
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130				
Dichlorodifluoromethane (Freon 12)	13.0	2.0	µg/L	10.00		130	40-160			V-20	†
1,1-Dichloroethane	11.8	1.0	µg/L	10.00		118	70-130				
1,2-Dichloroethane	10.1	1.0	µg/L	10.00		101	70-130				
1,1-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
trans-1,2-Dichloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
1,2-Dichloropropane	11.6	1.0	µg/L	10.00		116	70-130				
cis-1,3-Dichloropropene	11.5	0.50	µg/L	10.00		115	70-130				
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.00		110	70-130				
Diisopropyl Ether (DIPE)	11.0	0.50	µg/L	10.00		110	70-130				
Ethanol	97.5	50	µg/L	100.0		97.5	40-160				
Ethylbenzene	11.6	1.0	µg/L	10.00		116	70-130				
2-Hexanone (MBK)	113	10	µg/L	100.0		113	70-160				†
Isopropylbenzene (Cumene)	11.4	1.0	µg/L	10.00		114	70-130				
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.00		109	70-130				
Methyl Acetate	11.0	1.0	µg/L	10.00		110	70-130				
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.00		112	70-130				
Methyl Cyclohexane	11.0	1.0	µg/L	10.00		110	70-130				
Methylene Chloride	10.4	5.0	µg/L	10.00		104	70-130				
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100.0		114	70-160				†
Naphthalene	10.2	2.0	µg/L	10.00		102	40-130				†

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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 B391462 - SW-846 5030B											
LCS (B391462-BS1)				Prepared: 11/05/24 Analyzed: 11/06/24							
n-Propylbenzene	11.4	1.0	µg/L	10.00		114	70-130				
Styrene	11.4	1.0	µg/L	10.00		114	70-130				
1,1,2,2-Tetrachloroethane	11.9	0.50	µg/L	10.00		119	70-130				
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130				
Toluene	11.8	1.0	µg/L	10.00		118	70-130				
1,2,3-Trichlorobenzene	9.91	5.0	µg/L	10.00		99.1	70-130				
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.00		104	70-130				
1,1,1-Trichloroethane	11.9	1.0	µg/L	10.00		119	70-130				
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.00		117	70-130				
Trichloroethylene	11.9	1.0	µg/L	10.00		119	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.00		106	70-130				
1,2,3-Trichloropropane	11.4	2.0	µg/L	10.00		114	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.00		117	70-130				
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.00		108	70-130				
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.00		110	70-130				
Vinyl Chloride	11.9	2.0	µg/L	10.00		119	40-160				†
m+p Xylene	23.0	2.0	µg/L	20.00		115	70-130				
o-Xylene	11.5	1.0	µg/L	10.00		115	70-130				
Xylenes (total)	34.5	1.0	µg/L	30.00		115	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.00		100	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.00		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.00		105	70-130				
LCS Dup (B391462-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Acetone	67.4	50	µg/L	100.0		**67.4** *	70-160	15.8	25	L-07, V-05	†
tert-Amyl Alcohol (TAA)	99.9	5.0	µg/L	100.0		99.9	70-130	12.0	25		
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00		106	70-130	1.87	25		
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.00		106	70-130	4.35	25		
Benzene	11.8	1.0	µg/L	10.00		118	70-130	3.10	25	V-20	
Bromochloromethane	11.4	1.0	µg/L	10.00		114	70-130	5.40	25		
Bromodichloromethane	11.1	0.50	µg/L	10.00		111	70-130	3.98	25		
Bromoform	10.2	1.0	µg/L	10.00		102	70-130	5.33	25		
Bromomethane	11.6	2.0	µg/L	10.00		116	40-160	1.96	25		†
2-Butanone (MEK)	91.0	20	µg/L	100.0		91.0	40-160	6.02	25		†
tert-Butyl Alcohol (TBA)	95.9	20	µg/L	100.0		95.9	40-160	15.5	25		†
n-Butylbenzene	10.9	1.0	µg/L	10.00		109	70-130	2.97	25		
sec-Butylbenzene	11.0	1.0	µg/L	10.00		110	70-130	0.548	25		
tert-Butylbenzene	10.7	1.0	µg/L	10.00		107	70-130	0.187	25		
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.00		107	70-130	4.21	25		
Carbon Disulfide	116	5.0	µg/L	100.0		116	70-130	0.0172	25		
Carbon Tetrachloride	12.0	5.0	µg/L	10.00		120	70-130	1.07	25	V-20	
Chlorobenzene	11.0	1.0	µg/L	10.00		110	70-130	5.03	25		
Chlorodibromomethane	11.0	0.50	µg/L	10.00		110	70-130	4.69	25		
Chloroethane	10.3	2.0	µg/L	10.00		103	70-130	6.31	25		
Chloroform	10.8	2.0	µg/L	10.00		108	70-130	3.11	25		
Chloromethane	10.6	2.0	µg/L	10.00		106	40-160	0.943	25		†
Cyclohexane	11.1	5.0	µg/L	10.00		111	70-130	0.897	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.29	5.0	µg/L	10.00		92.9	70-130	9.63	25		
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00		112	70-130	6.47	25		
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	7.35	25		
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	0.453	25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	1.02	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 B391462 - SW-846 5030B											
LCS Dup (B391462-BSD1)				Prepared: 11/05/24 Analyzed: 11/06/24							
Dichlorodifluoromethane (Freon 12)	13.2	2.0	µg/L	10.00		132	40-160	1.98	25	V-20	†
1,1-Dichloroethane	11.8	1.0	µg/L	10.00		118	70-130	0.169	25		
1,2-Dichloroethane	10.0	1.0	µg/L	10.00		100	70-130	1.29	25		
1,1-Dichloroethylene	10.6	1.0	µg/L	10.00		106	70-130	3.67	25		
cis-1,2-Dichloroethylene	11.8	1.0	µg/L	10.00		118	70-130	0.338	25		
trans-1,2-Dichloroethylene	11.9	1.0	µg/L	10.00		119	70-130	1.01	25		
1,2-Dichloropropane	11.2	1.0	µg/L	10.00		112	70-130	4.12	25		
cis-1,3-Dichloropropene	11.1	0.50	µg/L	10.00		111	70-130	3.53	25		
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.00		105	70-130	4.67	25		
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.00		106	70-130	3.69	25		
Ethanol	90.4	50	µg/L	100.0		90.4	40-160	7.60	25		
Ethylbenzene	11.2	1.0	µg/L	10.00		112	70-130	3.68	25		
2-Hexanone (MBK)	105	10	µg/L	100.0		105	70-160	6.96	25		†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00		110	70-130	3.13	25		
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.00		106	70-130	2.69	25		
Methyl Acetate	10.5	1.0	µg/L	10.00		105	70-130	5.39	25		
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104	70-130	7.77	25		
Methyl Cyclohexane	11.2	1.0	µg/L	10.00		112	70-130	2.25	25		
Methylene Chloride	11.7	5.0	µg/L	10.00		117	70-130	11.6	25		
4-Methyl-2-pentanone (MIBK)	107	10	µg/L	100.0		107	70-160	6.41	25		†
Naphthalene	8.93	2.0	µg/L	10.00		89.3	40-130	13.3	25		†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111	70-130	2.14	25		
Styrene	11.0	1.0	µg/L	10.00		110	70-130	2.77	25		
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.00		107	70-130	10.7	25		
Tetrachloroethylene	11.9	1.0	µg/L	10.00		119	70-130	0.591	25		
Toluene	11.8	1.0	µg/L	10.00		118	70-130	0.338	25		
1,2,3-Trichlorobenzene	9.38	5.0	µg/L	10.00		93.8	70-130	5.50	25		
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.00		98.8	70-130	4.94	25		
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.00		116	70-130	2.64	25		
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130	3.11	25		
Trichloroethylene	11.3	1.0	µg/L	10.00		113	70-130	5.10	25		
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.00		101	70-130	5.70	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00		103	70-130	9.97	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.9	1.0	µg/L	10.00		119	70-130	1.02	25		
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.00		104	70-130	3.30	25		
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130	3.79	25		
Vinyl Chloride	11.8	2.0	µg/L	10.00		118	40-160	1.10	25		†
m+p Xylene	22.3	2.0	µg/L	20.00		112	70-130	3.13	25		
o-Xylene	11.2	1.0	µg/L	10.00		112	70-130	2.82	25		
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200	3.03			
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.00		95.6	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100	70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101	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 B391462 - SW-846 5030B											
Matrix Spike (B391462-MS1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/06/24							
Acetone	54.7	50	µg/L	100.0	ND	**54.7**	*	70-130			MS-09, V-05
tert-Amyl Alcohol (TAA)	82.0	5.0	µg/L	100.0	ND	82.0		70-130			
tert-Amyl Ethyl Ether (TAEE)	8.35	0.50	µg/L	10.00	ND	83.5		70-130			
tert-Amyl Methyl Ether (TAME)	9.35	0.50	µg/L	10.00	ND	93.5		70-130			
Benzene	10.5	1.0	µg/L	10.00	ND	105		70-130			V-20
Bromochloromethane	8.68	1.0	µg/L	10.00	ND	86.8		70-130			
Bromodichloromethane	9.89	0.50	µg/L	10.00	ND	98.9		70-130			
Bromoform	10.5	1.0	µg/L	10.00	ND	105		70-130			
Bromomethane	9.82	2.0	µg/L	10.00	ND	98.2		70-130			
2-Butanone (MEK)	73.5	20	µg/L	100.0	ND	73.5		70-130			
tert-Butyl Alcohol (TBA)	81.6	20	µg/L	100.0	ND	81.6		70-130			
n-Butylbenzene	9.41	1.0	µg/L	10.00	ND	94.1		70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.00	ND	102		70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.00	ND	102		70-130			
tert-Butyl Ethyl Ether (TBEE)	8.66	0.50	µg/L	10.00	ND	86.6		70-130			
Carbon Disulfide	101	5.0	µg/L	100.0	ND	101		70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.00	ND	102		70-130			V-20
Chlorobenzene	11.1	1.0	µg/L	10.00	ND	111		70-130			
Chlorodibromomethane	9.49	0.50	µg/L	10.00	ND	94.9		70-130			
Chloroethane	7.44	2.0	µg/L	10.00	ND	74.4		70-130			
Chloroform	9.25	2.0	µg/L	10.00	ND	92.5		70-130			
Chloromethane	7.90	2.0	µg/L	10.00	ND	79.0		70-130			
Cyclohexane	8.96	5.0	µg/L	10.00	ND	89.6		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.80	5.0	µg/L	10.00	ND	78.0		70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.00	ND	108		70-130			
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.00	ND	109		70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.00	ND	104		70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.00	ND	104		70-130			
Dichlorodifluoromethane (Freon 12)	11.2	2.0	µg/L	10.00	ND	112		70-130			V-20
1,1-Dichloroethane	9.55	1.0	µg/L	10.00	ND	95.5		70-130			
1,2-Dichloroethane	8.43	1.0	µg/L	10.00	ND	84.3		70-130			
1,1-Dichloroethylene	8.36	1.0	µg/L	10.00	ND	83.6		70-130			
cis-1,2-Dichloroethylene	9.39	1.0	µg/L	10.00	ND	93.9		70-130			
trans-1,2-Dichloroethylene	9.55	1.0	µg/L	10.00	ND	95.5		70-130			
1,2-Dichloropropane	9.87	1.0	µg/L	10.00	ND	98.7		70-130			
cis-1,3-Dichloropropene	8.57	0.50	µg/L	10.00	ND	85.7		70-130			
trans-1,3-Dichloropropene	8.43	0.50	µg/L	10.00	ND	84.3		70-130			
Diisopropyl Ether (DIPE)	7.79	0.50	µg/L	10.00	ND	77.9		70-130			
Ethanol	67.1	50	µg/L	100.0	ND	**67.1**	*	70-130			MS-09
Ethylbenzene	11.1	1.0	µg/L	10.00	ND	111		70-130			
2-Hexanone (MBK)	76.3	10	µg/L	100.0	ND	76.3		70-130			
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00	ND	110		70-130			
p-Isopropyltoluene (p-Cymene)	9.93	1.0	µg/L	10.00	ND	99.3		70-130			
Methyl Acetate	6.55	1.0	µg/L	10.00	ND	**65.5**	*	70-130			MS-24
Methyl tert-Butyl Ether (MTBE)	9.31	1.0	µg/L	10.00	ND	93.1		70-130			
Methyl Cyclohexane	9.45	1.0	µg/L	10.00	ND	94.5		70-130			
Methylene Chloride	8.48	5.0	µg/L	10.00	ND	84.8		70-130			
4-Methyl-2-pentanone (MIBK)	71.4	10	µg/L	100.0	ND	71.4		70-130			
Naphthalene	9.55	2.0	µg/L	10.00	ND	95.5		70-130			
n-Propylbenzene	10.9	1.0	µg/L	10.00	ND	109		70-130			
Styrene	11.2	1.0	µg/L	10.00	ND	112		70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.00	ND	105		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 B391462 - SW-846 5030B											
Matrix Spike (B391462-MS1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/06/24							
Tetrachloroethylene	12.3	1.0	µg/L	10.00	0.280	121		70-130			
Toluene	9.52	1.0	µg/L	10.00	ND	95.2		70-130			
1,2,3-Trichlorobenzene	9.76	5.0	µg/L	10.00	ND	97.6		70-130			
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.00	ND	100		70-130			
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.00	ND	100		70-130			
1,1,2-Trichloroethane	9.82	1.0	µg/L	10.00	ND	98.2		70-130			
Trichloroethylene	10.7	1.0	µg/L	10.00	ND	107		70-130			
Trichlorofluoromethane (Freon 11)	8.36	2.0	µg/L	10.00	ND	83.6		70-130			
1,2,3-Trichloropropane	9.88	2.0	µg/L	10.00	ND	98.8		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.90	1.0	µg/L	10.00	ND	99.0		70-130			
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.00	ND	101		70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.00	ND	109		70-130			
Vinyl Chloride	9.68	2.0	µg/L	10.00	ND	96.8		70-130			
m+p Xylene	22.0	2.0	µg/L	20.00	ND	110		70-130			
o-Xylene	10.9	1.0	µg/L	10.00	ND	109		70-130			
Xylenes (total)	33.0	1.0	µg/L	30.00	ND	110		0-200			
Surrogate: 1,2-Dichloroethane-d4	*19.8*		µg/L	25.00		79.2		70-130			
Surrogate: Toluene-d8	*21.8*		µg/L	25.00		87.2		70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.00		101		70-130			
Matrix Spike Dup (B391462-MSD1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/06/24							
Acetone	59.4	50	µg/L	100.0	ND	**59.4**	*	70-130	8.27	30	MS-09, V-05
tert-Amyl Alcohol (TAA)	92.3	5.0	µg/L	100.0	ND	92.3		70-130	11.8	30	
tert-Amyl Ethyl Ether (TAEE)	9.88	0.50	µg/L	10.00	ND	98.8		70-130	16.8	30	
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.00	ND	100		70-130	6.72	30	
Benzene	11.8	1.0	µg/L	10.00	ND	118		70-130	11.6	30	V-20
Bromochloromethane	9.66	1.0	µg/L	10.00	ND	96.6		70-130	10.7	30	
Bromodichloromethane	11.0	0.50	µg/L	10.00	ND	110		70-130	11.0	30	
Bromoform	11.5	1.0	µg/L	10.00	ND	115		70-130	9.08	30	
Bromomethane	9.73	2.0	µg/L	10.00	ND	97.3		70-130	0.921	30	
2-Butanone (MEK)	72.4	20	µg/L	100.0	ND	72.4		70-130	1.47	30	
tert-Butyl Alcohol (TBA)	90.0	20	µg/L	100.0	ND	90.0		70-130	9.88	30	
n-Butylbenzene	10.4	1.0	µg/L	10.00	ND	104		70-130	10.2	30	
sec-Butylbenzene	10.8	1.0	µg/L	10.00	ND	108		70-130	5.43	30	
tert-Butylbenzene	11.4	1.0	µg/L	10.00	ND	114		70-130	10.9	30	
tert-Butyl Ethyl Ether (TBEE)	9.50	0.50	µg/L	10.00	ND	95.0		70-130	9.25	30	
Carbon Disulfide	114	5.0	µg/L	100.0	ND	114		70-130	12.3	30	
Carbon Tetrachloride	11.7	5.0	µg/L	10.00	ND	117		70-130	13.6	30	V-20
Chlorobenzene	12.6	1.0	µg/L	10.00	ND	126		70-130	12.6	30	
Chlorodibromomethane	11.8	0.50	µg/L	10.00	ND	118		70-130	21.6	30	
Chloroethane	8.29	2.0	µg/L	10.00	ND	82.9		70-130	10.8	30	
Chloroform	10.3	2.0	µg/L	10.00	ND	103		70-130	10.9	30	
Chloromethane	9.02	2.0	µg/L	10.00	ND	90.2		70-130	13.2	30	
Cyclohexane	10.6	5.0	µg/L	10.00	ND	106		70-130	16.8	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.44	5.0	µg/L	10.00	ND	84.4		70-130	7.88	30	
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.00	ND	116		70-130	7.13	30	
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.00	ND	112		70-130	2.64	30	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.00	ND	110		70-130	5.31	30	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.00	ND	110		70-130	5.61	30	
Dichlorodifluoromethane (Freon 12)	12.8	2.0	µg/L	10.00	ND	128		70-130	13.2	30	V-20
1,1-Dichloroethane	10.5	1.0	µg/L	10.00	ND	105		70-130	9.67	30	
1,2-Dichloroethane	9.24	1.0	µg/L	10.00	ND	92.4		70-130	9.17	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 B391462 - SW-846 5030B											
Matrix Spike Dup (B391462-MSD1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/06/24							
1,1-Dichloroethylene	9.18	1.0	µg/L	10.00	ND	91.8		70-130	9.35	30	
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00	ND	105		70-130	11.2	30	
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.00	ND	109		70-130	13.4	30	
1,2-Dichloropropane	10.8	1.0	µg/L	10.00	ND	108		70-130	8.63	30	
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.00	ND	109		70-130	23.8	30	
trans-1,3-Dichloropropene	9.74	0.50	µg/L	10.00	ND	97.4		70-130	14.4	30	
Diisopropyl Ether (DIPE)	8.66	0.50	µg/L	10.00	ND	86.6		70-130	10.6	30	
Ethanol	65.1	50	µg/L	100.0	ND	**65.1**	*	70-130	2.95	30	MS-09
Ethylbenzene	12.2	1.0	µg/L	10.00	ND	122		70-130	10.1	30	
2-Hexanone (MBK)	89.8	10	µg/L	100.0	ND	89.8		70-130	16.3	30	
Isopropylbenzene (Cumene)	12.4	1.0	µg/L	10.00	ND	124		70-130	12.7	30	
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.00	ND	108		70-130	8.49	30	
Methyl Acetate	7.05	1.0	µg/L	10.00	ND	70.5		70-130	7.35	30	
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.00	ND	102		70-130	9.32	30	
Methyl Cyclohexane	11.9	1.0	µg/L	10.00	ND	119		70-130	23.0	30	
Methylene Chloride	9.48	5.0	µg/L	10.00	ND	94.8		70-130	11.1	30	
4-Methyl-2-pentanone (MIBK)	93.7	10	µg/L	100.0	ND	93.7		70-130	27.1	30	
Naphthalene	10.6	2.0	µg/L	10.00	ND	106		70-130	10.8	30	
n-Propylbenzene	12.2	1.0	µg/L	10.00	ND	122		70-130	11.6	30	
Styrene	12.4	1.0	µg/L	10.00	ND	124		70-130	9.86	30	
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.00	ND	113		70-130	7.43	30	
Tetrachloroethylene	13.7	1.0	µg/L	10.00	0.280	**134**	*	70-130	10.4	30	MS-24
Toluene	12.6	1.0	µg/L	10.00	ND	126		70-130	27.7	30	
1,2,3-Trichlorobenzene	11.5	5.0	µg/L	10.00	ND	115		70-130	16.5	30	
1,2,4-Trichlorobenzene	12.2	1.0	µg/L	10.00	ND	122		70-130	20.1	30	
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.00	ND	112		70-130	11.6	30	
1,1,2-Trichloroethane	11.8	1.0	µg/L	10.00	ND	118		70-130	18.5	30	
Trichloroethylene	12.4	1.0	µg/L	10.00	ND	124		70-130	14.7	30	
Trichlorofluoromethane (Freon 11)	9.66	2.0	µg/L	10.00	ND	96.6		70-130	14.4	30	
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.00	ND	107		70-130	7.59	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0	1.0	µg/L	10.00	ND	120		70-130	19.4	30	
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.00	ND	113		70-130	11.0	30	
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.00	ND	111		70-130	1.99	30	
Vinyl Chloride	10.8	2.0	µg/L	10.00	ND	108		70-130	10.7	30	
m+p Xylene	24.4	2.0	µg/L	20.00	ND	122		70-130	10.0	20	
o-Xylene	12.0	1.0	µg/L	10.00	ND	120		70-130	9.27	30	
Xylenes (total)	36.3	1.0	µg/L	30.00	ND	121		0-200	9.78		
Surrogate: 1,2-Dichloroethane-d4	*20.3*		µg/L	25.00		81.1		70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.00		101		70-130			
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.00		104		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 B391397 - SW-846 3510C										
Blank (B391397-BLK1)				Prepared: 11/05/24 Analyzed: 11/07/24						
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							L-04
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 B391397 - SW-846 3510C											
Blank (B391397-BLK1)				Prepared: 11/05/24 Analyzed: 11/07/24							
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	*183*		µg/L	400.0		45.9		15-110			
Surrogate: Phenol-d6	*124*		µg/L	400.0		31.0		15-110			
Surrogate: Nitrobenzene-d5	*132*		µg/L	200.0		65.8		30-130			
Surrogate: 2-Fluorobiphenyl	*127*		µg/L	200.0		63.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*368*		µg/L	400.0		92.0		15-110			
Surrogate: p-Terphenyl-d14	*190*		µg/L	200.0		95.2		30-130			
LCS (B391397-BS1)				Prepared: 11/05/24 Analyzed: 11/07/24							
2,3,4,6-Tetrachlorophenol	80.1	20	µg/L	100.0		80.1		40-140			R-05
Atrazine	99.7	20	µg/L	100.0		99.7		40-140			
Benzaldehyde	81.2	10	µg/L	100.0		81.2		40-140			
Biphenyl	70.2	20	µg/L	100.0		70.2		40-140			
Caprolactam	26.2	10	µg/L	100.0		**26.2**	*	40-140			L-04
Acenaphthene	71.2	5.0	µg/L	100.0		71.2		40-140			
Acenaphthylene	79.8	5.0	µg/L	100.0		79.8		40-140			
Acetophenone	81.5	10	µg/L	100.0		81.5		40-140			
Aniline	78.2	20	µg/L	100.0		78.2		40-140			V-05
Anthracene	84.8	5.0	µg/L	100.0		84.8		40-140			
Benzo(a)anthracene	84.6	5.0	µg/L	100.0		84.6		40-140			
Benzo(a)pyrene	85.3	5.0	µg/L	100.0		85.3		40-140			
Benzo(b)fluoranthene	88.8	5.0	µg/L	100.0		88.8		40-140			
Benzo(g,h,i)perylene	86.1	5.0	µg/L	100.0		86.1		40-140			
Benzo(k)fluoranthene	88.2	5.0	µg/L	100.0		88.2		40-140			
Bis(2-chloroethoxy)methane	84.9	10	µg/L	100.0		84.9		40-140			
Bis(2-chloroethyl)ether	80.5	10	µg/L	100.0		80.5		40-140			
2,2'-oxybis(1-Chloropropane)	83.2	10	µg/L	100.0		83.2		40-140			
Bis(2-Ethylhexyl)phthalate	82.4	10	µg/L	100.0		82.4		40-140			
4-Bromophenylphenylether	83.3	10	µg/L	100.0		83.3		40-140			
Butylbenzylphthalate	85.2	10	µg/L	100.0		85.2		40-140			
Carbazole	85.4	10	µg/L	100.0		85.4		40-140			
4-Chloroaniline	84.9	10	µg/L	100.0		84.9		40-140			
4-Chloro-3-methylphenol	85.9	10	µg/L	100.0		85.9		30-130			
2-Chloronaphthalene	62.0	10	µg/L	100.0		62.0		40-140			
2-Chlorophenol	72.4	10	µg/L	100.0		72.4		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B391397 - SW-846 3510C												
LCS (B391397-BS1)				Prepared: 11/05/24 Analyzed: 11/07/24								
4-Chlorophenylphenylether	82.9	10	µg/L	100.0		82.9		40-140				
Chrysene	81.8	5.0	µg/L	100.0		81.8		40-140				
Dibenz(a,h)anthracene	79.3	5.0	µg/L	100.0		79.3		40-140			V-04	
Dibenzofuran	82.3	5.0	µg/L	100.0		82.3		40-140				
Di-n-butylphthalate	80.4	10	µg/L	100.0		80.4		40-140				
3,3-Dichlorobenzidine	83.7	10	µg/L	100.0		83.7		40-140				
2,4-Dichlorophenol	79.5	10	µg/L	100.0		79.5		30-130				
Diethylphthalate	83.3	10	µg/L	100.0		83.3		40-140				
2,4-Dimethylphenol	76.6	10	µg/L	100.0		76.6		30-130				
Dimethylphthalate	86.9	10	µg/L	100.0		86.9		40-140				
4,6-Dinitro-2-methylphenol	57.2	20	µg/L	100.0		57.2		30-130				
2,4-Dinitrophenol	21.4	10	µg/L	100.0		**21.4**	*	30-130			L-07A, V-04, V-05	
2,4-Dinitrotoluene	90.2	10	µg/L	100.0		90.2		40-140				
2,6-Dinitrotoluene	87.8	10	µg/L	100.0		87.8		40-140				
Di-n-octylphthalate	82.4	10	µg/L	100.0		82.4		40-140			V-04	
Fluoranthene	87.0	5.0	µg/L	100.0		87.0		40-140				
Fluorene	83.0	5.0	µg/L	100.0		83.0		40-140				
Hexachlorobenzene	85.6	10	µg/L	100.0		85.6		40-140				
Hexachlorobutadiene	41.5	10	µg/L	100.0		41.5		40-140				
Hexachlorocyclopentadiene	41.8	10	µg/L	100.0		41.8		30-140				†
Hexachloroethane	36.7	10	µg/L	100.0		**36.7**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	85.7	5.0	µg/L	100.0		85.7		40-140			V-04	
Isophorone	87.5	10	µg/L	100.0		87.5		40-140				
1-Methylnaphthalene	65.5	5.0	µg/L	100.0		65.5		40-140				
2-Methylnaphthalene	64.2	5.0	µg/L	100.0		64.2		40-140				
2-Methylphenol	75.0	10	µg/L	100.0		75.0		30-130				
3/4-Methylphenol	74.6	10	µg/L	100.0		74.6		30-130				
Naphthalene	66.2	5.0	µg/L	100.0		66.2		40-140				
2-Nitroaniline	98.3	10	µg/L	100.0		98.3		40-140				
3-Nitroaniline	87.3	10	µg/L	100.0		87.3		40-140				
4-Nitroaniline	85.0	10	µg/L	100.0		85.0		40-140				
Nitrobenzene	83.4	10	µg/L	100.0		83.4		40-140				
2-Nitrophenol	74.6	10	µg/L	100.0		74.6		30-130				
4-Nitrophenol	32.0	10	µg/L	100.0		32.0		10-130				†
N-Nitrosodiphenylamine/Diphenylamine	80.8	10	µg/L	100.0		80.8		40-140				
N-Nitrosodi-n-propylamine	75.4	10	µg/L	100.0		75.4		40-140				
Pentachlorophenol	57.5	10	µg/L	100.0		57.5		30-130				
Phenanthrene	83.3	5.0	µg/L	100.0		83.3		40-140				
Phenol	42.1	10	µg/L	100.0		42.1		20-130				†
Pyrene	85.5	5.0	µg/L	100.0		85.5		40-140				
Pyridine	22.7	20	µg/L	100.0		22.7		10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	65.5	10	µg/L	100.0		65.5		40-140				
2,4,5-Trichlorophenol	77.7	10	µg/L	100.0		77.7		30-130				
2,4,6-Trichlorophenol	71.6	10	µg/L	100.0		71.6		30-130				
Surrogate: 2-Fluorophenol	*246*		µg/L	400.0		61.4		15-110				
Surrogate: Phenol-d6	*196*		µg/L	400.0		49.1		15-110				
Surrogate: Nitrobenzene-d5	*182*		µg/L	200.0		90.8		30-130				
Surrogate: 2-Fluorobiphenyl	*180*		µg/L	200.0		90.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*429*		µg/L	400.0		107		15-110				
Surrogate: p-Terphenyl-d14	*200*		µg/L	200.0		99.9		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 B391397 - SW-846 3510C											
LCS Dup (B391397-BSD1)				Prepared: 11/05/24 Analyzed: 11/07/24							
2,3,4,6-Tetrachlorophenol	103	20	µg/L	100.0		103	40-140	**25.2** *	20	R-05	
Atrazine	101	20	µg/L	100.0		101	40-140	1.08	20		
Benzaldehyde	77.5	10	µg/L	100.0		77.5	40-140	4.67	20		
Biphenyl	75.6	20	µg/L	100.0		75.6	40-140	7.46	20		
Caprolactam	26.6	10	µg/L	100.0		**26.6** *	40-140	1.44	20	L-04	
Acenaphthene	80.2	5.0	µg/L	100.0		80.2	40-140	11.9	20		
Acenaphthylene	83.7	5.0	µg/L	100.0		83.7	40-140	4.76	20		
Acetophenone	79.7	10	µg/L	100.0		79.7	40-140	2.26	20		
Aniline	71.7	20	µg/L	100.0		71.7	40-140	8.72	50	V-05	‡
Anthracene	90.3	5.0	µg/L	100.0		90.3	40-140	6.29	20		
Benzo(a)anthracene	91.6	5.0	µg/L	100.0		91.6	40-140	7.83	20		
Benzo(a)pyrene	91.4	5.0	µg/L	100.0		91.4	40-140	7.01	20		
Benzo(b)fluoranthene	93.6	5.0	µg/L	100.0		93.6	40-140	5.19	20		
Benzo(g,h,i)perylene	91.1	5.0	µg/L	100.0		91.1	40-140	5.56	20		
Benzo(k)fluoranthene	93.9	5.0	µg/L	100.0		93.9	40-140	6.18	20		
Bis(2-chloroethoxy)methane	84.9	10	µg/L	100.0		84.9	40-140	0.0353	20		
Bis(2-chloroethyl)ether	78.9	10	µg/L	100.0		78.9	40-140	2.01	20		
2,2'-oxybis(1-Chloropropane)	81.6	10	µg/L	100.0		81.6	40-140	1.92	20		
Bis(2-Ethylhexyl)phthalate	88.3	10	µg/L	100.0		88.3	40-140	6.96	20		
4-Bromophenylphenylether	90.5	10	µg/L	100.0		90.5	40-140	8.26	20		
Butylbenzylphthalate	94.3	10	µg/L	100.0		94.3	40-140	10.2	20		
Carbazole	92.7	10	µg/L	100.0		92.7	40-140	8.26	20		
4-Chloroaniline	88.7	10	µg/L	100.0		88.7	40-140	4.41	20		
4-Chloro-3-methylphenol	91.8	10	µg/L	100.0		91.8	30-130	6.65	20		
2-Chloronaphthalene	65.8	10	µg/L	100.0		65.8	40-140	5.97	20		
2-Chlorophenol	77.4	10	µg/L	100.0		77.4	30-130	6.73	20		
4-Chlorophenylphenylether	86.9	10	µg/L	100.0		86.9	40-140	4.71	20		
Chrysene	89.9	5.0	µg/L	100.0		89.9	40-140	9.52	20		
Dibenz(a,h)anthracene	87.1	5.0	µg/L	100.0		87.1	40-140	9.35	20	V-04	
Dibenzofuran	87.4	5.0	µg/L	100.0		87.4	40-140	6.04	20		
Di-n-butylphthalate	86.5	10	µg/L	100.0		86.5	40-140	7.23	20		
3,3-Dichlorobenzidine	91.6	10	µg/L	100.0		91.6	40-140	9.06	20		
2,4-Dichlorophenol	89.0	10	µg/L	100.0		89.0	30-130	11.2	20		
Diethylphthalate	88.1	10	µg/L	100.0		88.1	40-140	5.55	20		
2,4-Dimethylphenol	77.9	10	µg/L	100.0		77.9	30-130	1.66	20		
Dimethylphthalate	91.9	10	µg/L	100.0		91.9	40-140	5.56	50		‡
4,6-Dinitro-2-methylphenol	78.6	20	µg/L	100.0		78.6	30-130	31.5	50		‡
2,4-Dinitrophenol	52.2	10	µg/L	100.0		52.2	30-130	**83.7** *	50	R-05, V-04, V-05	‡
2,4-Dinitrotoluene	97.3	10	µg/L	100.0		97.3	40-140	7.54	20		
2,6-Dinitrotoluene	97.1	10	µg/L	100.0		97.1	40-140	10.0	20		
Di-n-octylphthalate	91.2	10	µg/L	100.0		91.2	40-140	10.2	20	V-04	
Fluoranthene	93.3	5.0	µg/L	100.0		93.3	40-140	7.07	20		
Fluorene	88.4	5.0	µg/L	100.0		88.4	40-140	6.32	20		
Hexachlorobenzene	96.9	10	µg/L	100.0		96.9	40-140	12.4	20		
Hexachlorobutadiene	43.2	10	µg/L	100.0		43.2	40-140	4.13	20		
Hexachlorocyclopentadiene	46.8	10	µg/L	100.0		46.8	30-140	11.3	50		† ‡
Hexachloroethane	40.0	10	µg/L	100.0		40.0	40-140	8.40	50	L-04	‡
Indeno(1,2,3-cd)pyrene	91.1	5.0	µg/L	100.0		91.1	40-140	6.12	50	V-04	‡
Isophorone	91.0	10	µg/L	100.0		91.0	40-140	3.93	20		
1-Methylnaphthalene	68.9	5.0	µg/L	100.0		68.9	40-140	5.12	20		
2-Methylnaphthalene	67.4	5.0	µg/L	100.0		67.4	40-140	4.82	20		
2-Methylphenol	75.7	10	µg/L	100.0		75.7	30-130	0.849	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 B391397 - SW-846 3510C												
LCS Dup (B391397-BSD1)				Prepared: 11/05/24 Analyzed: 11/07/24								
3/4-Methylphenol	73.5	10	µg/L	100.0		73.5		30-130	1.46	20		
Naphthalene	67.3	5.0	µg/L	100.0		67.3		40-140	1.71	20		
2-Nitroaniline	99.3	10	µg/L	100.0		99.3		40-140	1.01	20		
3-Nitroaniline	89.0	10	µg/L	100.0		89.0		40-140	1.96	20		
4-Nitroaniline	83.8	10	µg/L	100.0		83.8		40-140	1.41	20		
Nitrobenzene	84.6	10	µg/L	100.0		84.6		40-140	1.40	20		
2-Nitrophenol	81.6	10	µg/L	100.0		81.6		30-130	8.96	20		
4-Nitrophenol	45.3	10	µg/L	100.0		45.3		10-130	34.2	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	89.8	10	µg/L	100.0		89.8		40-140	10.6	20		
N-Nitrosodi-n-propylamine	78.9	10	µg/L	100.0		78.9		40-140	4.55	20		
Pentachlorophenol	78.9	10	µg/L	100.0		78.9		30-130	31.5	50		‡
Phenanthrene	89.0	5.0	µg/L	100.0		89.0		40-140	6.66	20		
Phenol	43.2	10	µg/L	100.0		43.2		20-130	2.51	20		†
Pyrene	96.1	5.0	µg/L	100.0		96.1		40-140	11.7	20		
Pyridine	16.4	20	µg/L	100.0		16.4		10-140	32.2	50	V-34, J	† ‡
1,2,4,5-Tetrachlorobenzene	70.5	10	µg/L	100.0		70.5		40-140	7.38	20		
2,4,5-Trichlorophenol	91.3	10	µg/L	100.0		91.3		30-130	16.0	20		
2,4,6-Trichlorophenol	90.4	10	µg/L	100.0		90.4		30-130	23.3	50		‡
Surrogate: 2-Fluorophenol	*253*		µg/L	400.0		63.3		15-110				
Surrogate: Phenol-d6	*188*		µg/L	400.0		47.0		15-110				
Surrogate: Nitrobenzene-d5	*173*		µg/L	200.0		86.4		30-130				
Surrogate: 2-Fluorobiphenyl	*177*		µg/L	200.0		88.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*468*		µg/L	400.0		**117**	*	15-110			S-07	
Surrogate: p-Terphenyl-d14	*207*		µg/L	200.0		103		30-130				
Matrix Spike (B391397-MS1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/07/24								
2,3,4,6-Tetrachlorophenol	10.1	19	µg/L	96.29	ND	**10.5**	*	40-140			MS-09, R-06, J	
Atrazine	84.8	19	µg/L	96.29	ND	88.1		40-140				
Benzaldehyde	70.7	9.6	µg/L	96.29	ND	73.4		40-140				
Biphenyl	59.7	19	µg/L	96.29	ND	62.0		40-140				
Caprolactam	21.8	9.6	µg/L	96.29	ND	**22.7**	*	40-140			MS-09	
Acenaphthene	59.4	4.8	µg/L	96.29	ND	61.6		40-140				
Acenaphthylene	67.5	4.8	µg/L	96.29	ND	70.1		40-140				
Acetophenone	70.1	9.6	µg/L	96.29	ND	72.8		40-140				
Aniline	66.9	19	µg/L	96.29	ND	69.4		40-140			V-05	
Anthracene	74.8	4.8	µg/L	96.29	ND	77.7		40-140				
Benzo(a)anthracene	76.4	4.8	µg/L	96.29	ND	79.4		40-140				
Benzo(a)pyrene	74.9	4.8	µg/L	96.29	ND	77.8		40-140				
Benzo(b)fluoranthene	77.4	4.8	µg/L	96.29	ND	80.4		40-140				
Benzo(g,h,i)perylene	78.7	4.8	µg/L	96.29	ND	81.7		40-140				
Benzo(k)fluoranthene	80.6	4.8	µg/L	96.29	ND	83.7		40-140				
Bis(2-chloroethoxy)methane	73.5	9.6	µg/L	96.29	ND	76.4		40-140				
Bis(2-chloroethyl)ether	70.1	9.6	µg/L	96.29	ND	72.8		40-140				
2,2'-oxybis(1-Chloropropane)	71.5	9.6	µg/L	96.29	ND	74.3		40-140				
Bis(2-Ethylhexyl)phthalate	73.0	9.6	µg/L	96.29	ND	75.8		40-140				
4-Bromophenylphenylether	77.1	9.6	µg/L	96.29	ND	80.0		40-140				
Butylbenzylphthalate	77.0	9.6	µg/L	96.29	ND	80.0		40-140				
Carbazole	78.0	9.6	µg/L	96.29	ND	81.0		40-140				
4-Chloroaniline	72.3	9.6	µg/L	96.29	ND	75.1		40-140				
4-Chloro-3-methylphenol	68.8	9.6	µg/L	96.29	ND	71.4		30-130				
2-Chloronaphthalene	53.7	9.6	µg/L	96.29	ND	55.8		40-140				
2-Chlorophenol	34.6	9.6	µg/L	96.29	ND	35.9		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 B391397 - SW-846 3510C											
Matrix Spike (B391397-MS1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/07/24							
4-Chlorophenylphenylether	72.2	9.6	µg/L	96.29	ND	75.0		40-140			
Chrysene	74.3	4.8	µg/L	96.29	ND	77.2		40-140			
Dibenz(a,h)anthracene	74.5	4.8	µg/L	96.29	ND	77.3		40-140			V-04
Dibenzofuran	70.6	4.8	µg/L	96.29	ND	73.3		40-140			
Di-n-butylphthalate	73.9	9.6	µg/L	96.29	ND	76.8		40-140			
3,3-Dichlorobenzidine	61.5	9.6	µg/L	96.29	ND	63.9		40-140			
2,4-Dichlorophenol	36.1	9.6	µg/L	96.29	ND	37.5		30-130			R-06
Diethylphthalate	73.3	9.6	µg/L	96.29	ND	76.1		40-140			
2,4-Dimethylphenol	64.0	9.6	µg/L	96.29	ND	66.4		30-130			
Dimethylphthalate	76.5	9.6	µg/L	96.29	ND	79.5		40-140			
4,6-Dinitro-2-methylphenol	24.2	19	µg/L	96.29	ND	**25.2**	*	30-130			MS-22
2,4-Dinitrophenol	0.915	9.6	µg/L	96.29	ND	**0.950**	*	30-130			V-04, V-05, MS-09, J
2,4-Dinitrotoluene	77.4	9.6	µg/L	96.29	ND	80.3		40-140			
2,6-Dinitrotoluene	79.6	9.6	µg/L	96.29	ND	82.7		40-140			
Di-n-octylphthalate	76.5	9.6	µg/L	96.29	ND	79.4		40-140			V-04
Fluoranthene	79.8	4.8	µg/L	96.29	ND	82.8		40-140			
Fluorene	72.0	4.8	µg/L	96.29	ND	74.8		40-140			
Hexachlorobenzene	79.8	9.6	µg/L	96.29	ND	82.9		40-140			
Hexachlorobutadiene	38.9	9.6	µg/L	96.29	ND	40.4		40-140			
Hexachlorocyclopentadiene	37.1	9.6	µg/L	96.29	ND	38.5		30-130			
Hexachloroethane	38.1	9.6	µg/L	96.29	ND	**39.6**	*	40-140			MS-09
Indeno(1,2,3-cd)pyrene	78.2	4.8	µg/L	96.29	ND	81.3		40-140			V-04
Isophorone	75.9	9.6	µg/L	96.29	ND	78.9		40-140			
1-Methylnaphthalene	56.3	4.8	µg/L	96.29	ND	58.5		40-140			
2-Methylnaphthalene	54.3	4.8	µg/L	96.29	ND	56.4		40-140			
2-Methylphenol	59.0	9.6	µg/L	96.29	ND	61.2		30-130			
3/4-Methylphenol	54.7	9.6	µg/L	96.29	ND	56.8		30-130			
Naphthalene	57.9	4.8	µg/L	96.29	ND	60.1		40-140			
2-Nitroaniline	83.0	9.6	µg/L	96.29	ND	86.2		40-140			
3-Nitroaniline	71.9	9.6	µg/L	96.29	ND	74.7		40-140			
4-Nitroaniline	66.2	9.6	µg/L	96.29	ND	68.7		40-140			
Nitrobenzene	74.4	9.6	µg/L	96.29	ND	77.2		40-140			
2-Nitrophenol	27.2	9.6	µg/L	96.29	ND	**28.2**	*	30-130			MS-23
4-Nitrophenol	4.77	9.6	µg/L	96.29	ND	**4.95**	*	30-130			MS-09, R-06, J
N-Nitrosodiphenylamine/Diphenylamine	67.2	9.6	µg/L	96.29	ND	69.8		40-140			
N-Nitrosodi-n-propylamine	66.3	9.6	µg/L	96.29	ND	68.8		40-140			
Pentachlorophenol	5.19	9.6	µg/L	96.29	ND	**5.39**	*	30-130			MS-09, R-06, J
Phenanthrene	76.3	4.8	µg/L	96.29	ND	79.3		40-140			
Phenol	25.2	9.6	µg/L	96.29	ND	**26.1**	*	30-130			MS-22
Pyrene	77.1	4.8	µg/L	96.29	ND	80.0		40-140			
Pyridine	19.3	19	µg/L	96.29	ND	**20.0**	*	40-140			MS-09, V-34
1,2,4,5-Tetrachlorobenzene	54.4	9.6	µg/L	96.29	ND	56.5		40-140			
2,4,5-Trichlorophenol	23.6	9.6	µg/L	96.29	ND	**24.5**	*	30-130			MS-23
2,4,6-Trichlorophenol	16.5	9.6	µg/L	96.29	ND	**17.1**	*	30-130			MS-23
Surrogate: 2-Fluorophenol	*76.5*		µg/L	385.2		19.9		15-110			
Surrogate: Phenol-d6	*106*		µg/L	385.2		27.4		15-110			
Surrogate: Nitrobenzene-d5	*153*		µg/L	192.6		79.6		30-130			
Surrogate: 2-Fluorobiphenyl	*148*		µg/L	192.6		76.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*107*		µg/L	385.2		27.7		15-110			
Surrogate: p-Terphenyl-d14	*169*		µg/L	192.6		87.5		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 B391397 - SW-846 3510C												
Matrix Spike Dup (B391397-MSD1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/07/24								
2,3,4,6-Tetrachlorophenol	32.8	20	µg/L	99.77	ND	**32.9**	*	40-140	**106**	*	30	R-06, MS-09
Atrazine	92.9	20	µg/L	99.77	ND	93.1		40-140	9.09		30	
Benzaldehyde	67.2	10	µg/L	99.77	ND	67.4		40-140	5.04		30	
Biphenyl	64.1	20	µg/L	99.77	ND	64.2		40-140	7.03		30	
Caprolactam	23.3	10	µg/L	99.77	ND	**23.4**	*	40-140	6.54		30	MS-09
Acenaphthene	64.4	5.0	µg/L	99.77	ND	64.5		40-140	8.11		30	
Acenaphthylene	72.3	5.0	µg/L	99.77	ND	72.5		40-140	6.86		30	
Acetophenone	69.5	10	µg/L	99.77	ND	69.7		40-140	0.858		30	
Aniline	65.2	20	µg/L	99.77	ND	65.3		40-140	2.58		30	V-05
Anthracene	80.5	5.0	µg/L	99.77	ND	80.6		40-140	7.23		30	
Benzo(a)anthracene	80.0	5.0	µg/L	99.77	ND	80.2		40-140	4.64		30	
Benzo(a)pyrene	81.2	5.0	µg/L	99.77	ND	81.4		40-140	8.05		30	
Benzo(b)fluoranthene	84.8	5.0	µg/L	99.77	ND	85.0		40-140	9.09		30	
Benzo(g,h,i)perylene	81.5	5.0	µg/L	99.77	ND	81.7		40-140	3.52		30	
Benzo(k)fluoranthene	85.4	5.0	µg/L	99.77	ND	85.6		40-140	5.72		30	
Bis(2-chloroethoxy)methane	76.7	10	µg/L	99.77	ND	76.9		40-140	4.21		30	
Bis(2-chloroethyl)ether	67.8	10	µg/L	99.77	ND	67.9		40-140	3.46		30	
2,2'-oxybis(1-Chloropropane)	69.8	10	µg/L	99.77	ND	70.0		40-140	2.37		30	
Bis(2-Ethylhexyl)phthalate	78.2	10	µg/L	99.77	ND	78.3		40-140	6.85		30	
4-Bromophenylphenylether	80.4	10	µg/L	99.77	ND	80.6		40-140	4.17		30	
Butylbenzylphthalate	81.7	10	µg/L	99.77	ND	81.9		40-140	5.89		30	
Carbazole	82.2	10	µg/L	99.77	ND	82.4		40-140	5.17		30	
4-Chloroaniline	76.2	10	µg/L	99.77	ND	76.4		40-140	5.24		30	
4-Chloro-3-methylphenol	74.7	10	µg/L	99.77	ND	74.9		30-130	8.29		30	
2-Chloronaphthalene	57.0	10	µg/L	99.77	ND	57.2		40-140	5.97		30	
2-Chlorophenol	45.7	10	µg/L	99.77	ND	45.8		30-130	27.7		30	
4-Chlorophenylphenylether	77.3	10	µg/L	99.77	ND	77.4		40-140	6.77		30	
Chrysene	78.4	5.0	µg/L	99.77	ND	78.6		40-140	5.40		30	
Dibenz(a,h)anthracene	79.5	5.0	µg/L	99.77	ND	79.7		40-140	6.60		30	V-04
Dibenzofuran	76.0	5.0	µg/L	99.77	ND	76.2		40-140	7.44		30	
Di-n-butylphthalate	76.5	10	µg/L	99.77	ND	76.7		40-140	3.44		30	
3,3-Dichlorobenzidine	78.2	10	µg/L	99.77	ND	78.3		40-140	23.8		30	
2,4-Dichlorophenol	55.4	10	µg/L	99.77	ND	55.5		30-130	**42.2**	*	30	R-06
Diethylphthalate	78.9	10	µg/L	99.77	ND	79.1		40-140	7.36		30	
2,4-Dimethylphenol	67.6	10	µg/L	99.77	ND	67.8		30-130	5.51		30	
Dimethylphthalate	81.9	10	µg/L	99.77	ND	82.1		40-140	6.78		30	
4,6-Dinitro-2-methylphenol	32.7	20	µg/L	99.77	ND	32.8		30-130	29.9		30	
2,4-Dinitrophenol	4.01	10	µg/L	99.77	ND	**4.02**	*	30-130			30	MS-09, V-04, V-05, J
2,4-Dinitrotoluene	82.1	10	µg/L	99.77	ND	82.3		40-140	5.97		30	
2,6-Dinitrotoluene	83.4	10	µg/L	99.77	ND	83.6		40-140	4.57		30	
Di-n-octylphthalate	82.9	10	µg/L	99.77	ND	83.1		40-140	8.08		30	V-04
Fluoranthene	83.4	5.0	µg/L	99.77	ND	83.6		40-140	4.47		30	
Fluorene	78.2	5.0	µg/L	99.77	ND	78.4		40-140	8.27		30	
Hexachlorobenzene	85.5	10	µg/L	99.77	ND	85.7		40-140	6.86		30	
Hexachlorobutadiene	36.7	10	µg/L	99.77	ND	**36.8**	*	40-140	5.68		30	MS-22
Hexachlorocyclopentadiene	36.3	10	µg/L	99.77	ND	36.4		30-130	2.20		30	
Hexachloroethane	32.5	10	µg/L	99.77	ND	**32.5**	*	40-140	16.1		30	MS-09
Indeno(1,2,3-cd)pyrene	82.6	5.0	µg/L	99.77	ND	82.7		40-140	5.35		30	V-04
Isophorone	78.9	10	µg/L	99.77	ND	79.1		40-140	3.88		30	
1-Methylnaphthalene	57.7	5.0	µg/L	99.77	ND	57.9		40-140	2.47		30	
2-Methylnaphthalene	56.4	5.0	µg/L	99.77	ND	56.6		40-140	3.90		30	
2-Methylphenol	62.2	10	µg/L	99.77	ND	62.3		30-130	5.29		30	

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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 B391397 - SW-846 3510C												
Matrix Spike Dup (B391397-MSD1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/07/24								
3/4-Methylphenol	59.7	10	µg/L	99.77	ND	59.8		30-130	8.65		30	
Naphthalene	56.5	5.0	µg/L	99.77	ND	56.6		40-140	2.41		30	
2-Nitroaniline	90.0	10	µg/L	99.77	ND	90.2		40-140	8.14		30	
3-Nitroaniline	80.2	10	µg/L	99.77	ND	80.4		40-140	11.0		30	
4-Nitroaniline	69.1	10	µg/L	99.77	ND	69.3		40-140	4.32		30	
Nitrobenzene	73.0	10	µg/L	99.77	ND	73.2		40-140	1.89		30	
2-Nitrophenol	44.6	10	µg/L	99.77	ND	44.7		30-130	**48.4**	*	30	R-06
4-Nitrophenol	11.0	10	µg/L	99.77	ND	**11.0**	*	30-130	**78.9**	*	30	R-06, MS-09
N-Nitrosodiphenylamine/Diphenylamine	77.4	10	µg/L	99.77	ND	77.6		40-140	14.2		30	
N-Nitrosodi-n-propylamine	65.8	10	µg/L	99.77	ND	66.0		40-140	0.652		30	
Pentachlorophenol	17.6	10	µg/L	99.77	ND	**17.6**	*	30-130	**109**	*	30	MS-09, R-06
Phenanthrene	80.6	5.0	µg/L	99.77	ND	80.8		40-140	5.41		30	
Phenol	31.3	10	µg/L	99.77	ND	31.4		30-130	21.9		30	
Pyrene	82.5	5.0	µg/L	99.77	ND	82.7		40-140	6.75		30	
Pyridine	18.5	20	µg/L	99.77	ND	**18.6**	*	40-140	3.97		30	MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	57.4	10	µg/L	99.77	ND	57.5		40-140	5.25		30	
2,4,5-Trichlorophenol	49.3	10	µg/L	99.77	ND	49.4		30-130	**70.6**	*	30	R-06
2,4,6-Trichlorophenol	38.2	10	µg/L	99.77	ND	38.3		30-130	**79.5**	*	30	R-06
Surrogate: 2-Fluorophenol	*121*		µg/L	399.1		30.3		15-110				
Surrogate: Phenol-d6	*131*		µg/L	399.1		32.9		15-110				
Surrogate: Nitrobenzene-d5	*148*		µg/L	199.5		74.4		30-130				
Surrogate: 2-Fluorobiphenyl	*157*		µg/L	199.5		78.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*243*		µg/L	399.1		60.9		15-110				
Surrogate: p-Terphenyl-d14	*180*		µg/L	199.5		90.4		30-130				
Batch B391852 - SW-846 3546												
Blank (B391852-BLK1)				Prepared: 11/10/24 Analyzed: 11/11/24								
2,3,4,6-Tetrachlorophenol	ND	0.66	mg/Kg wet									
Atrazine	ND	0.66	mg/Kg wet									
Benzaldehyde	ND	0.33	mg/Kg wet									V-05
Biphenyl	ND	0.66	mg/Kg wet									
Caprolactam	ND	0.33	mg/Kg wet									
Acenaphthene	ND	0.17	mg/Kg wet									
Acenaphthylene	ND	0.17	mg/Kg wet									
Acetophenone	ND	0.33	mg/Kg wet									
Aniline	ND	0.33	mg/Kg wet									
Anthracene	ND	0.17	mg/Kg wet									
Benzo(a)anthracene	ND	0.17	mg/Kg wet									
Benzo(a)pyrene	ND	0.17	mg/Kg wet									
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet									
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet									
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet									
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet									
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet									
2,2'-oxybis(1-Chloropropane)	ND	0.33	mg/Kg wet									
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet									
4-Bromophenylphenylether	ND	0.33	mg/Kg wet									
Butylbenzylphthalate	ND	0.33	mg/Kg wet									
Carbazole	ND	0.17	mg/Kg wet									
4-Chloroaniline	ND	0.65	mg/Kg wet									
4-Chloro-3-methylphenol	ND	0.65	mg/Kg wet									
2-Chloronaphthalene	ND	0.33	mg/Kg wet									

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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 B391852 - SW-846 3546										
Blank (B391852-BLK1)				Prepared: 11/10/24 Analyzed: 11/11/24						
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.65	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							
3/4-Methylphenol	ND	0.33	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.33	mg/Kg wet							
3-Nitroaniline	ND	0.33	mg/Kg wet							
4-Nitroaniline	ND	0.33	mg/Kg wet							
Nitrobenzene	ND	0.33	mg/Kg wet							
2-Nitrophenol	ND	0.33	mg/Kg wet							
4-Nitrophenol	ND	0.65	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet							
Pentachlorophenol	ND	0.33	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.33	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.33	mg/Kg wet							L-04, V-34
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet							
Surrogate: 2-Fluorophenol	*4.71*		mg/Kg wet	6.553		71.9	30-130			
Surrogate: Phenol-d6	*5.12*		mg/Kg wet	6.553		78.1	30-130			
Surrogate: Nitrobenzene-d5	*2.61*		mg/Kg wet	3.277		79.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.21*		mg/Kg wet	3.277		67.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.53*		mg/Kg wet	6.553		84.4	30-130			
Surrogate: p-Terphenyl-d14	*2.57*		mg/Kg wet	3.277		78.5	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 B391852 - SW-846 3546											
LCS (B391852-BS1)				Prepared: 11/10/24 Analyzed: 11/11/24							
2,3,4,6-Tetrachlorophenol	1.29	0.66	mg/Kg wet	1.638		79.0	40-140				
Atrazine	1.33	0.66	mg/Kg wet	1.638		81.2	40-140				
Benzaldehyde	1.01	0.33	mg/Kg wet	1.638		61.8	40-140			V-05	
Biphenyl	1.21	0.66	mg/Kg wet	1.638		74.0	40-140				
Caprolactam	1.39	0.33	mg/Kg wet	1.638		84.9	40-140				
Acenaphthene	1.23	0.17	mg/Kg wet	1.638		75.4	40-140				
Acenaphthylene	1.28	0.17	mg/Kg wet	1.638		78.4	40-140				
Acetophenone	1.16	0.33	mg/Kg wet	1.638		71.1	40-140				
Aniline	0.911	0.33	mg/Kg wet	1.638		55.6	10-140				†
Anthracene	1.21	0.17	mg/Kg wet	1.638		74.1	40-140				
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.638		76.5	40-140				
Benzo(a)pyrene	1.26	0.17	mg/Kg wet	1.638		77.2	40-140				
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.638		73.4	40-140				
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.638		90.6	40-140				
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.638		76.4	40-140				
Bis(2-chloroethoxy)methane	1.28	0.33	mg/Kg wet	1.638		78.4	40-140				
Bis(2-chloroethyl)ether	1.28	0.33	mg/Kg wet	1.638		78.4	40-140				
2,2'-oxybis(1-Chloropropane)	1.58	0.33	mg/Kg wet	1.638		96.5	40-140				
Bis(2-Ethylhexyl)phthalate	1.31	0.33	mg/Kg wet	1.638		79.9	40-140				
4-Bromophenylphenylether	1.26	0.33	mg/Kg wet	1.638		77.0	40-140				
Butylbenzylphthalate	1.28	0.33	mg/Kg wet	1.638		78.0	40-140				
Carbazole	1.23	0.17	mg/Kg wet	1.638		75.2	40-140				
4-Chloroaniline	0.886	0.65	mg/Kg wet	1.638		54.1	10-140				†
4-Chloro-3-methylphenol	1.28	0.65	mg/Kg wet	1.638		77.9	30-130				
2-Chloronaphthalene	1.14	0.33	mg/Kg wet	1.638		69.8	40-140				
2-Chlorophenol	1.15	0.33	mg/Kg wet	1.638		70.2	30-130				
4-Chlorophenylphenylether	1.24	0.33	mg/Kg wet	1.638		75.7	40-140				
Chrysene	1.21	0.17	mg/Kg wet	1.638		73.7	40-140				
Dibenz(a,h)anthracene	1.51	0.17	mg/Kg wet	1.638		92.1	40-140				
Dibenzofuran	1.26	0.33	mg/Kg wet	1.638		76.8	40-140				
Di-n-butylphthalate	1.22	0.33	mg/Kg wet	1.638		74.6	40-140				
3,3-Dichlorobenzidine	1.07	0.17	mg/Kg wet	1.638		65.4	20-140				†
2,4-Dichlorophenol	1.18	0.33	mg/Kg wet	1.638		72.2	30-130				
Diethylphthalate	1.26	0.33	mg/Kg wet	1.638		77.1	40-140				
2,4-Dimethylphenol	1.18	0.33	mg/Kg wet	1.638		72.1	30-130				
Dimethylphthalate	1.31	0.33	mg/Kg wet	1.638		79.9	40-140				
4,6-Dinitro-2-methylphenol	1.34	0.33	mg/Kg wet	1.638		81.9	30-130				
2,4-Dinitrophenol	1.39	0.65	mg/Kg wet	1.638		84.8	30-130				
2,4-Dinitrotoluene	1.51	0.33	mg/Kg wet	1.638		92.0	40-140				
2,6-Dinitrotoluene	1.45	0.33	mg/Kg wet	1.638		88.3	40-140				
Di-n-octylphthalate	1.27	0.33	mg/Kg wet	1.638		77.4	40-140				
Fluoranthene	1.21	0.17	mg/Kg wet	1.638		73.7	40-140				
Fluorene	1.25	0.17	mg/Kg wet	1.638		76.1	40-140				
Hexachlorobenzene	1.30	0.33	mg/Kg wet	1.638		79.1	40-140				
Hexachlorobutadiene	1.11	0.33	mg/Kg wet	1.638		68.0	40-140				
Hexachlorocyclopentadiene	1.16	0.33	mg/Kg wet	1.638		71.0	40-140				
Hexachloroethane	1.09	0.33	mg/Kg wet	1.638		66.8	40-140				
Indeno(1,2,3-cd)pyrene	1.57	0.17	mg/Kg wet	1.638		96.0	40-140				
Isophorone	1.32	0.33	mg/Kg wet	1.638		80.4	40-140				
1-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.638		71.9	40-140				
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.638		69.1	40-140				
2-Methylphenol	1.21	0.33	mg/Kg wet	1.638		74.1	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 B391852 - SW-846 3546												
LCS (B391852-BS1)				Prepared: 11/10/24 Analyzed: 11/11/24								
3/4-Methylphenol	1.31	0.33	mg/Kg wet	1.638		80.3		30-130				
Naphthalene	1.15	0.17	mg/Kg wet	1.638		69.9		40-140				
2-Nitroaniline	1.81	0.33	mg/Kg wet	1.638		110		40-140				
3-Nitroaniline	1.18	0.33	mg/Kg wet	1.638		71.8		30-140				†
4-Nitroaniline	1.42	0.33	mg/Kg wet	1.638		86.7		40-140				
Nitrobenzene	1.27	0.33	mg/Kg wet	1.638		77.8		40-140				
2-Nitrophenol	1.25	0.33	mg/Kg wet	1.638		76.5		30-130				
4-Nitrophenol	1.34	0.65	mg/Kg wet	1.638		81.9		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.29	0.33	mg/Kg wet	1.638		78.6		40-140				
N-Nitrosodi-n-propylamine	1.31	0.33	mg/Kg wet	1.638		80.0		40-140				
Pentachlorophenol	1.16	0.33	mg/Kg wet	1.638		71.0		30-130				
Phenanthrene	1.20	0.17	mg/Kg wet	1.638		73.4		40-140				
Phenol	1.28	0.33	mg/Kg wet	1.638		77.9		30-130				
Pyrene	1.23	0.17	mg/Kg wet	1.638		75.1		40-140				
Pyridine	0.432	0.33	mg/Kg wet	1.638		**26.4**	*	30-140			L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.10	0.33	mg/Kg wet	1.638		67.4		40-140				
2,4,5-Trichlorophenol	1.28	0.33	mg/Kg wet	1.638		78.5		30-130				
2,4,6-Trichlorophenol	1.22	0.33	mg/Kg wet	1.638		74.7		30-130				
Surrogate: 2-Fluorophenol	*4.89*		mg/Kg wet	6.551		74.6		30-130				
Surrogate: Phenol-d6	*5.23*		mg/Kg wet	6.551		79.9		30-130				
Surrogate: Nitrobenzene-d5	*2.72*		mg/Kg wet	3.275		83.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.37*		mg/Kg wet	3.275		72.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.07*		mg/Kg wet	6.551		92.6		30-130				
Surrogate: p-Terphenyl-d14	*2.69*		mg/Kg wet	3.275		82.0		30-130				
LCS Dup (B391852-BSD1)				Prepared: 11/10/24 Analyzed: 11/11/24								
2,3,4,6-Tetrachlorophenol	1.31	0.66	mg/Kg wet	1.638		79.9		40-140	1.08	20		
Atrazine	1.36	0.66	mg/Kg wet	1.638		83.0		40-140	2.17	30		
Benzaldehyde	1.02	0.33	mg/Kg wet	1.638		62.5		40-140	1.19	20	V-05	
Biphenyl	1.22	0.66	mg/Kg wet	1.638		74.2		40-140	0.297	20		
Caprolactam	1.38	0.33	mg/Kg wet	1.638		84.5		40-140	0.472	20		
Acenaphthene	1.24	0.17	mg/Kg wet	1.638		75.7		40-140	0.397	30		
Acenaphthylene	1.29	0.17	mg/Kg wet	1.638		79.0		40-140	0.686	30		
Acetophenone	1.19	0.33	mg/Kg wet	1.638		72.4		40-140	1.84	30		
Aniline	1.10	0.33	mg/Kg wet	1.638		66.9		10-140	18.5	50		† ‡
Anthracene	1.21	0.17	mg/Kg wet	1.638		73.9		40-140	0.297	30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.638		75.6		40-140	1.16	30		
Benzo(a)pyrene	1.27	0.17	mg/Kg wet	1.638		77.4		40-140	0.233	30		
Benzo(b)fluoranthene	1.21	0.17	mg/Kg wet	1.638		73.7		40-140	0.353	30		
Benzo(g,h,i)perylene	1.44	0.17	mg/Kg wet	1.638		88.0		40-140	2.96	30		
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.638		76.4		40-140	0.0786	30		
Bis(2-chloroethoxy)methane	1.28	0.33	mg/Kg wet	1.638		78.3		40-140	0.204	30		
Bis(2-chloroethyl)ether	1.29	0.33	mg/Kg wet	1.638		79.0		40-140	0.762	30		
2,2'-oxybis(1-Chloropropane)	1.59	0.33	mg/Kg wet	1.638		97.0		40-140	0.434	30		
Bis(2-Ethylhexyl)phthalate	1.33	0.33	mg/Kg wet	1.638		81.5		40-140	1.88	30		
4-Bromophenylphenylether	1.26	0.33	mg/Kg wet	1.638		76.7		40-140	0.364	30		
Butylbenzylphthalate	1.29	0.33	mg/Kg wet	1.638		79.0		40-140	1.27	30		
Carbazole	1.22	0.17	mg/Kg wet	1.638		74.5		40-140	0.882	30		
4-Chloroaniline	1.15	0.65	mg/Kg wet	1.638		70.0		10-140	25.6	30		†
4-Chloro-3-methylphenol	1.29	0.65	mg/Kg wet	1.638		78.8		30-130	1.15	30		
2-Chloronaphthalene	1.08	0.33	mg/Kg wet	1.638		66.2		40-140	5.32	30		
2-Chlorophenol	1.15	0.33	mg/Kg wet	1.638		70.3		30-130	0.199	30		

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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 B391852 - SW-846 3546												
LCS Dup (B391852-BSD1)				Prepared: 11/10/24 Analyzed: 11/11/24								
4-Chlorophenylphenylether	1.25	0.33	mg/Kg wet	1.638		76.3		40-140	0.737	30		
Chrysene	1.20	0.17	mg/Kg wet	1.638		73.1		40-140	0.872	30		
Dibenz(a,h)anthracene	1.46	0.17	mg/Kg wet	1.638		89.2		40-140	3.22	30		
Dibenzofuran	1.26	0.33	mg/Kg wet	1.638		77.1		40-140	0.416	30		
Di-n-butylphthalate	1.21	0.33	mg/Kg wet	1.638		73.8		40-140	1.05	30		
3,3-Dichlorobenzidine	1.28	0.17	mg/Kg wet	1.638		78.1		20-140	17.8	50		† ‡
2,4-Dichlorophenol	1.19	0.33	mg/Kg wet	1.638		72.4		30-130	0.304	30		
Diethylphthalate	1.27	0.33	mg/Kg wet	1.638		77.8		40-140	0.956	30		
2,4-Dimethylphenol	1.17	0.33	mg/Kg wet	1.638		71.3		30-130	1.03	30		
Dimethylphthalate	1.33	0.33	mg/Kg wet	1.638		81.1		40-140	1.57	30		
4,6-Dinitro-2-methylphenol	1.35	0.33	mg/Kg wet	1.638		82.6		30-130	0.851	30		
2,4-Dinitrophenol	1.41	0.65	mg/Kg wet	1.638		86.1		30-130	1.52	30		
2,4-Dinitrotoluene	1.52	0.33	mg/Kg wet	1.638		93.0		40-140	1.12	30		
2,6-Dinitrotoluene	1.46	0.33	mg/Kg wet	1.638		89.3		40-140	1.10	30		
Di-n-octylphthalate	1.27	0.33	mg/Kg wet	1.638		77.6		40-140	0.258	30		
Fluoranthene	1.20	0.17	mg/Kg wet	1.638		73.2		40-140	0.735	30		
Fluorene	1.26	0.17	mg/Kg wet	1.638		76.7		40-140	0.786	30		
Hexachlorobenzene	1.32	0.33	mg/Kg wet	1.638		80.5		40-140	1.73	30		
Hexachlorobutadiene	1.07	0.33	mg/Kg wet	1.638		65.5		40-140	3.71	30		
Hexachlorocyclopentadiene	1.18	0.33	mg/Kg wet	1.638		72.0		40-140	1.37	30		
Hexachloroethane	1.11	0.33	mg/Kg wet	1.638		67.9		40-140	1.63	30		
Indeno(1,2,3-cd)pyrene	1.53	0.17	mg/Kg wet	1.638		93.7		40-140	2.42	30		
Isophorone	1.32	0.33	mg/Kg wet	1.638		80.8		40-140	0.422	30		
1-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.638		71.1		40-140	1.03	30		
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.638		68.4		40-140	0.931	30		
2-Methylphenol	1.22	0.33	mg/Kg wet	1.638		74.3		30-130	0.162	30		
3/4-Methylphenol	1.36	0.33	mg/Kg wet	1.638		82.7		30-130	3.02	30		
Naphthalene	1.13	0.17	mg/Kg wet	1.638		69.2		40-140	1.06	30		
2-Nitroaniline	1.80	0.33	mg/Kg wet	1.638		110		40-140	0.0363	30		
3-Nitroaniline	1.32	0.33	mg/Kg wet	1.638		80.6		30-140	11.5	30		†
4-Nitroaniline	1.41	0.33	mg/Kg wet	1.638		86.0		40-140	0.880	30		
Nitrobenzene	1.23	0.33	mg/Kg wet	1.638		75.1		40-140	3.51	30		
2-Nitrophenol	1.24	0.33	mg/Kg wet	1.638		76.0		30-130	0.682	30		
4-Nitrophenol	1.32	0.65	mg/Kg wet	1.638		80.9		30-130	1.30	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.25	0.33	mg/Kg wet	1.638		76.4		40-140	2.81	30		
N-Nitrosodi-n-propylamine	1.32	0.33	mg/Kg wet	1.638		80.5		40-140	0.698	30		
Pentachlorophenol	1.16	0.33	mg/Kg wet	1.638		70.8		30-130	0.282	30		
Phenanthrene	1.18	0.17	mg/Kg wet	1.638		72.3		40-140	1.59	30		
Phenol	1.30	0.33	mg/Kg wet	1.638		79.6		30-130	2.16	30		
Pyrene	1.23	0.17	mg/Kg wet	1.638		75.0		40-140	0.160	30		
Pyridine	0.430	0.33	mg/Kg wet	1.638		**26.3**	*	30-140	0.380	30	L-04, V-34	†
1,2,4,5-Tetrachlorobenzene	1.09	0.33	mg/Kg wet	1.638		66.5		40-140	1.37	30		
2,4,5-Trichlorophenol	1.28	0.33	mg/Kg wet	1.638		78.2		30-130	0.383	30		
2,4,6-Trichlorophenol	1.22	0.33	mg/Kg wet	1.638		74.5		30-130	0.241	30		
Surrogate: 2-Fluorophenol	*4.86*		mg/Kg wet	6.551		74.2		30-130				
Surrogate: Phenol-d6	*5.28*		mg/Kg wet	6.551		80.5		30-130				
Surrogate: Nitrobenzene-d5	*2.69*		mg/Kg wet	3.275		82.3		30-130				
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.275		72.1		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.10*		mg/Kg wet	6.551		93.1		30-130				
Surrogate: p-Terphenyl-d14	*2.66*		mg/Kg wet	3.275		81.2		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 B391852 - SW-846 3546											
Matrix Spike (B391852-MS1)		**Source: 24K0186-07**		Prepared: 11/10/24 Analyzed: 11/11/24							
2,3,4,6-Tetrachlorophenol	0.929	1.4	mg/Kg dry	1.753	ND	53.0		40-140			J
Atrazine	1.07	1.4	mg/Kg dry	1.753	ND	61.0		40-140			J
Benzaldehyde	0.749	0.72	mg/Kg dry	1.753	ND	42.7		40-140			V-05
Biphenyl	0.926	1.4	mg/Kg dry	1.753	ND	52.8		40-140			J
Caprolactam	0.996	0.72	mg/Kg dry	1.753	ND	56.8		40-140			
Acenaphthene	0.879	0.36	mg/Kg dry	1.753	ND	50.1		40-140			
Acenaphthylene	0.977	0.36	mg/Kg dry	1.753	ND	55.8		40-140			
Acetophenone	0.891	0.72	mg/Kg dry	1.753	ND	50.8		40-140			
Aniline	1.90	0.72	mg/Kg dry	1.753	ND	108		40-140			
Anthracene	0.907	0.36	mg/Kg dry	1.753	ND	51.7		40-140			
Benzo(a)anthracene	1.01	0.36	mg/Kg dry	1.753	0.114	51.2		40-140			R-06
Benzo(a)pyrene	1.02	0.36	mg/Kg dry	1.753	0.144	49.8		40-140			R-06
Benzo(b)fluoranthene	1.15	0.36	mg/Kg dry	1.753	0.233	52.3		40-140			R-06
Benzo(g,h,i)perylene	1.09	0.36	mg/Kg dry	1.753	0.145	53.9		40-140			R-06
Benzo(k)fluoranthene	1.06	0.36	mg/Kg dry	1.753	0.0981	55.0		40-140			
Bis(2-chloroethoxy)methane	0.980	0.72	mg/Kg dry	1.753	ND	55.9		40-140			
Bis(2-chloroethyl)ether	0.972	0.72	mg/Kg dry	1.753	ND	55.5		40-140			
2,2'-oxybis(1-Chloropropane)	1.20	0.72	mg/Kg dry	1.753	ND	68.4		40-140			
Bis(2-Ethylhexyl)phthalate	1.24	0.72	mg/Kg dry	1.753	0.101	64.7		40-140			
4-Bromophenylphenylether	0.900	0.72	mg/Kg dry	1.753	ND	51.3		40-140			
Butylbenzylphthalate	1.15	0.72	mg/Kg dry	1.753	ND	65.8		40-140			
Carbazole	0.900	0.36	mg/Kg dry	1.753	ND	51.3		40-140			
4-Chloroaniline	0.638	1.4	mg/Kg dry	1.753	ND	**36.4**	*	40-140			MS-22, J
4-Chloro-3-methylphenol	0.935	1.4	mg/Kg dry	1.753	ND	53.4		30-130			J
2-Chloronaphthalene	0.888	0.72	mg/Kg dry	1.753	ND	50.6		40-140			
2-Chlorophenol	0.872	0.72	mg/Kg dry	1.753	ND	49.8		30-130			
4-Chlorophenylphenylether	0.979	0.72	mg/Kg dry	1.753	ND	55.8		40-140			
Chrysene	0.988	0.36	mg/Kg dry	1.753	0.156	47.5		40-140			R-06
Dibenz(a,h)anthracene	0.957	0.36	mg/Kg dry	1.753	ND	54.6		40-140			
Dibenzofuran	0.965	0.72	mg/Kg dry	1.753	ND	55.0		40-140			
Di-n-butylphthalate	0.984	0.72	mg/Kg dry	1.753	ND	56.2		40-140			
3,3-Dichlorobenzidine	0.228	0.36	mg/Kg dry	1.753	ND	**13.0**	*	40-140			MS-09, R-06, J
2,4-Dichlorophenol	0.894	0.72	mg/Kg dry	1.753	ND	51.0		30-130			
Diethylphthalate	1.02	0.72	mg/Kg dry	1.753	ND	58.4		40-140			
2,4-Dimethylphenol	0.825	0.72	mg/Kg dry	1.753	ND	47.0		30-130			
Dimethylphthalate	1.01	0.72	mg/Kg dry	1.753	ND	57.7		40-140			
4,6-Dinitro-2-methylphenol	0.759	0.72	mg/Kg dry	1.753	ND	43.3		30-130			
2,4-Dinitrophenol	0.813	1.4	mg/Kg dry	1.753	ND	46.4		30-130			J
2,4-Dinitrotoluene	1.14	0.72	mg/Kg dry	1.753	ND	65.3		40-140			
2,6-Dinitrotoluene	1.06	0.72	mg/Kg dry	1.753	ND	60.7		40-140			
Di-n-octylphthalate	1.42	0.72	mg/Kg dry	1.753	ND	80.8		40-140			
Fluoranthene	1.13	0.36	mg/Kg dry	1.753	0.251	50.4		40-140			R-06
Fluorene	0.951	0.36	mg/Kg dry	1.753	ND	54.2		40-140			
Hexachlorobenzene	0.886	0.72	mg/Kg dry	1.753	ND	50.6		40-140			
Hexachlorobutadiene	0.871	0.72	mg/Kg dry	1.753	ND	49.7		40-140			
Hexachlorocyclopentadiene	0.0463	0.72	mg/Kg dry	1.753	ND	**2.64**	*	30-130			MS-09, J
Hexachloroethane	0.708	0.72	mg/Kg dry	1.753	ND	40.4		40-140			J
Indeno(1,2,3-cd)pyrene	1.10	0.36	mg/Kg dry	1.753	0.128	55.4		40-140			R-06
Isophorone	0.998	0.72	mg/Kg dry	1.753	ND	57.0		40-140			
1-Methylnaphthalene	0.904	0.36	mg/Kg dry	1.753	ND	51.6		40-140			
2-Methylnaphthalene	0.865	0.36	mg/Kg dry	1.753	ND	49.4		40-140			
2-Methylphenol	0.922	0.72	mg/Kg dry	1.753	ND	52.6		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391852 - SW-846 3546												
Matrix Spike (B391852-MS1)		**Source: 24K0186-07**		Prepared: 11/10/24 Analyzed: 11/11/24								
3/4-Methylphenol	0.989	0.72	mg/Kg dry	1.753	ND	56.4		30-130				
Naphthalene	0.883	0.36	mg/Kg dry	1.753	ND	50.4		40-140				
2-Nitroaniline	1.32	0.72	mg/Kg dry	1.753	ND	75.4		40-140				
3-Nitroaniline	0.827	0.72	mg/Kg dry	1.753	ND	47.2		40-140				
4-Nitroaniline	0.880	0.72	mg/Kg dry	1.753	ND	50.2		40-140				
Nitrobenzene	0.914	0.72	mg/Kg dry	1.753	ND	52.1		40-140				
2-Nitrophenol	0.914	0.72	mg/Kg dry	1.753	ND	52.2		30-130				
4-Nitrophenol	1.01	1.4	mg/Kg dry	1.753	ND	57.6		30-130				J
N-Nitrosodiphenylamine/Diphenylamine	0.903	0.72	mg/Kg dry	1.753	ND	51.5		40-140				
N-Nitrosodi-n-propylamine	1.00	0.72	mg/Kg dry	1.753	ND	57.3		40-140				
Pentachlorophenol	0.610	0.72	mg/Kg dry	1.753	ND	34.8		30-130				J
Phenanthrene	0.958	0.36	mg/Kg dry	1.753	0.104	48.7		40-140				R-06
Phenol	0.958	0.72	mg/Kg dry	1.753	ND	54.6		30-130				
Pyrene	1.15	0.36	mg/Kg dry	1.753	0.219	53.2		40-140				R-06
Pyridine	0.224	0.72	mg/Kg dry	1.753	ND	**12.8**	*	40-140				L-04, MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	0.819	0.72	mg/Kg dry	1.753	ND	46.7		40-140				
2,4,5-Trichlorophenol	0.937	0.72	mg/Kg dry	1.753	ND	53.5		30-130				
2,4,6-Trichlorophenol	0.886	0.72	mg/Kg dry	1.753	ND	50.5		30-130				
Surrogate: 2-Fluorophenol	*3.58*		mg/Kg dry	7.011		51.1		30-130				
Surrogate: Phenol-d6	*3.86*		mg/Kg dry	7.011		55.0		30-130				
Surrogate: Nitrobenzene-d5	*2.01*		mg/Kg dry	3.506		57.2		30-130				
Surrogate: 2-Fluorobiphenyl	*1.79*		mg/Kg dry	3.506		51.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.34*		mg/Kg dry	7.011		61.8		30-130				
Surrogate: p-Terphenyl-d14	*2.09*		mg/Kg dry	3.506		59.7		30-130				
Matrix Spike Dup (B391852-MSD1)		**Source: 24K0186-07**		Prepared: 11/10/24 Analyzed: 11/11/24								
2,3,4,6-Tetrachlorophenol	1.13	1.4	mg/Kg dry	1.751	ND	64.4		40-140	19.3		30	J
Atrazine	1.31	1.4	mg/Kg dry	1.751	ND	74.6		40-140	20.0		30	J
Benzaldehyde	0.927	0.71	mg/Kg dry	1.751	ND	52.9		40-140	21.2		30	V-05
Biphenyl	1.09	1.4	mg/Kg dry	1.751	ND	62.4		40-140	16.4		30	J
Caprolactam	1.15	0.71	mg/Kg dry	1.751	ND	65.4		40-140	14.0		30	
Acenaphthene	1.07	0.36	mg/Kg dry	1.751	ND	61.3		40-140	19.9		30	
Acenaphthylene	1.14	0.36	mg/Kg dry	1.751	ND	65.4		40-140	15.8		30	
Acetophenone	1.09	0.71	mg/Kg dry	1.751	ND	62.3		40-140	20.1		30	
Aniline	2.40	0.71	mg/Kg dry	1.751	ND	137		40-140	23.3		30	
Anthracene	1.14	0.36	mg/Kg dry	1.751	ND	65.0		40-140	22.6		30	
Benzo(a)anthracene	1.39	0.36	mg/Kg dry	1.751	0.114	73.1		40-140	**31.9**	*	30	R-06
Benzo(a)pyrene	1.45	0.36	mg/Kg dry	1.751	0.144	74.4		40-140	**34.8**	*	30	R-06
Benzo(b)fluoranthene	1.65	0.36	mg/Kg dry	1.751	0.233	80.7		40-140	**35.4**	*	30	R-06
Benzo(g,h,i)perylene	1.53	0.36	mg/Kg dry	1.751	0.145	79.0		40-140	**33.5**	*	30	R-06
Benzo(k)fluoranthene	1.39	0.36	mg/Kg dry	1.751	0.0981	73.8		40-140	26.7		30	
Bis(2-chloroethoxy)methane	1.17	0.71	mg/Kg dry	1.751	ND	66.6		40-140	17.3		30	
Bis(2-chloroethyl)ether	1.17	0.71	mg/Kg dry	1.751	ND	66.6		40-140	18.2		30	
2,2'-oxybis(1-Chloropropane)	1.47	0.71	mg/Kg dry	1.751	ND	84.0		40-140	20.4		30	
Bis(2-Ethylhexyl)phthalate	1.52	0.71	mg/Kg dry	1.751	0.101	80.8		40-140	20.4		30	
4-Bromophenylphenylether	1.06	0.71	mg/Kg dry	1.751	ND	60.8		40-140	16.8		30	
Butylbenzylphthalate	1.39	0.71	mg/Kg dry	1.751	ND	79.5		40-140	18.7		30	
Carbazole	1.16	0.36	mg/Kg dry	1.751	ND	66.2		40-140	25.3		30	
4-Chloroaniline	0.799	1.4	mg/Kg dry	1.751	ND	45.6		40-140	22.4		30	J
4-Chloro-3-methylphenol	1.10	1.4	mg/Kg dry	1.751	ND	62.7		30-130	16.0		30	J
2-Chloronaphthalene	0.957	0.71	mg/Kg dry	1.751	ND	54.7		40-140	7.57		30	
2-Chlorophenol	1.04	0.71	mg/Kg dry	1.751	ND	59.2		30-130	17.3		30	

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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 B391852 - SW-846 3546												
Matrix Spike Dup (B391852-MSD1)	**Source: 24K0186-07**			Prepared: 11/10/24 Analyzed: 11/11/24								
4-Chlorophenylphenylether	1.16	0.71	mg/Kg dry	1.751	ND	66.0		40-140	16.5		30	
Chrysene	1.39	0.36	mg/Kg dry	1.751	0.156	70.6		40-140	**33.9**	*	30	R-06
Dibenz(a,h)anthracene	1.21	0.36	mg/Kg dry	1.751	ND	69.1		40-140	23.4		30	
Dibenzofuran	1.14	0.71	mg/Kg dry	1.751	ND	65.3		40-140	17.0		30	
Di-n-butylphthalate	1.19	0.71	mg/Kg dry	1.751	ND	68.2		40-140	19.2		30	
3,3-Dichlorobenzidine	0.352	0.36	mg/Kg dry	1.751	ND	**20.1**	*	40-140	**42.9**	*	30	MS-09, R-06, J
2,4-Dichlorophenol	1.06	0.71	mg/Kg dry	1.751	ND	60.6		30-130	17.0		30	
Diethylphthalate	1.21	0.71	mg/Kg dry	1.751	ND	69.0		40-140	16.5		30	
2,4-Dimethylphenol	0.960	0.71	mg/Kg dry	1.751	ND	54.8		30-130	15.1		30	
Dimethylphthalate	1.19	0.71	mg/Kg dry	1.751	ND	68.2		40-140	16.5		30	
4,6-Dinitro-2-methylphenol	0.782	0.71	mg/Kg dry	1.751	ND	44.7		30-130	2.99		30	
2,4-Dinitrophenol	0.831	1.4	mg/Kg dry	1.751	ND	47.5		30-130	2.29		30	J
2,4-Dinitrotoluene	1.36	0.71	mg/Kg dry	1.751	ND	77.8		40-140	17.4		30	
2,6-Dinitrotoluene	1.29	0.71	mg/Kg dry	1.751	ND	73.8		40-140	19.4		30	
Di-n-octylphthalate	1.70	0.71	mg/Kg dry	1.751	ND	97.0		40-140	18.1		30	
Fluoranthene	1.99	0.36	mg/Kg dry	1.751	0.251	99.3		40-140	**54.8**	*	30	R-06
Fluorene	1.17	0.36	mg/Kg dry	1.751	ND	66.6		40-140	20.4		30	
Hexachlorobenzene	1.03	0.71	mg/Kg dry	1.751	ND	58.8		40-140	15.0		30	
Hexachlorobutadiene	1.03	0.71	mg/Kg dry	1.751	ND	59.1		40-140	17.2		30	
Hexachlorocyclopentadiene	0.0862	0.71	mg/Kg dry	1.751	ND	**4.92**	*	30-130			30	MS-09, J
Hexachloroethane	0.827	0.71	mg/Kg dry	1.751	ND	47.2		40-140	15.4		30	
Indeno(1,2,3-cd)pyrene	1.57	0.36	mg/Kg dry	1.751	0.128	82.4		40-140	**35.2**	*	30	R-06
Isophorone	1.20	0.71	mg/Kg dry	1.751	ND	68.4		40-140	18.2		30	
1-Methylnaphthalene	1.06	0.36	mg/Kg dry	1.751	ND	60.6		40-140	15.9		30	
2-Methylnaphthalene	1.03	0.36	mg/Kg dry	1.751	ND	58.6		40-140	17.0		30	
2-Methylphenol	1.09	0.71	mg/Kg dry	1.751	ND	62.4		30-130	16.9		30	
3/4-Methylphenol	1.19	0.71	mg/Kg dry	1.751	ND	67.9		30-130	18.4		30	
Naphthalene	1.05	0.36	mg/Kg dry	1.751	ND	59.9		40-140	17.1		30	
2-Nitroaniline	1.58	0.71	mg/Kg dry	1.751	ND	90.1		40-140	17.7		30	
3-Nitroaniline	1.01	0.71	mg/Kg dry	1.751	ND	57.6		40-140	19.7		30	
4-Nitroaniline	1.06	0.71	mg/Kg dry	1.751	ND	60.7		40-140	18.9		30	
Nitrobenzene	1.13	0.71	mg/Kg dry	1.751	ND	64.4		40-140	20.9		30	
2-Nitrophenol	1.12	0.71	mg/Kg dry	1.751	ND	64.2		30-130	20.7		30	
4-Nitrophenol	1.25	1.4	mg/Kg dry	1.751	ND	71.6		30-130	21.6		30	J
N-Nitrosodiphenylamine/Diphenylamine	1.07	0.71	mg/Kg dry	1.751	ND	61.2		40-140	17.0		30	
N-Nitrosodi-n-propylamine	1.23	0.71	mg/Kg dry	1.751	ND	70.2		40-140	20.1		30	
Pentachlorophenol	0.717	0.71	mg/Kg dry	1.751	ND	40.9		30-130	16.1		30	
Phenanthrene	1.50	0.36	mg/Kg dry	1.751	0.104	79.8		40-140	**44.2**	*	30	R-06
Phenol	1.15	0.71	mg/Kg dry	1.751	ND	65.5		30-130	18.0		30	
Pyrene	1.93	0.36	mg/Kg dry	1.751	0.219	97.6		40-140	**50.4**	*	30	R-06
Pyridine	0.243	0.71	mg/Kg dry	1.751	ND	**13.9**	*	40-140	8.00		30	L-04, MS-09, V-34, J
1,2,4,5-Tetrachlorobenzene	0.976	0.71	mg/Kg dry	1.751	ND	55.7		40-140	17.5		30	
2,4,5-Trichlorophenol	1.10	0.71	mg/Kg dry	1.751	ND	62.6		30-130	15.6		30	
2,4,6-Trichlorophenol	1.03	0.71	mg/Kg dry	1.751	ND	59.0		30-130	15.5		30	
Surrogate: 2-Fluorophenol	*4.35*		mg/Kg dry	7.004		62.0		30-130				
Surrogate: Phenol-d6	*4.66*		mg/Kg dry	7.004		66.6		30-130				
Surrogate: Nitrobenzene-d5	*2.37*		mg/Kg dry	3.502		67.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg dry	3.502		59.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.23*		mg/Kg dry	7.004		74.7		30-130				
Surrogate: p-Terphenyl-d14	*2.57*		mg/Kg dry	3.502		73.4		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 B391320 - SW-846 3510C										
Blank (B391320-BLK1)				Prepared: 11/04/24 Analyzed: 11/11/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.46*		µg/L	10.00		24.6	15-110			
LCS (B391320-BS1)				Prepared: 11/04/24 Analyzed: 11/11/24						
1,4-Dioxane	9.80	0.20	µg/L	10.00		98.0	40-140			
Surrogate: 1,4-Dioxane-d8	*2.50*		µg/L	10.00		25.0	15-110			
LCS Dup (B391320-BSD1)				Prepared: 11/04/24 Analyzed: 11/11/24						
1,4-Dioxane	11.3	0.20	µg/L	10.00		113	40-140	13.9	30	
Surrogate: 1,4-Dioxane-d8	*2.44*		µg/L	10.00		24.4	15-110			
Batch B391403 - SW-846 3510C										
Blank (B391403-BLK1)				Prepared: 11/05/24 Analyzed: 11/11/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.69*		µg/L	10.00		26.9	15-110			
LCS (B391403-BS1)				Prepared: 11/05/24 Analyzed: 11/11/24						
1,4-Dioxane	10.1	0.20	µg/L	10.00		101	40-140			
Surrogate: 1,4-Dioxane-d8	*2.37*		µg/L	10.00		23.7	15-110			
LCS Dup (B391403-BSD1)				Prepared: 11/05/24 Analyzed: 11/11/24						
1,4-Dioxane	11.2	0.20	µg/L	10.00		112	40-140	10.2	30	
Surrogate: 1,4-Dioxane-d8	*2.60*		µg/L	10.00		26.0	15-110			
Matrix Spike (B391403-MS1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/12/24						
1,4-Dioxane	11.6	0.20	µg/L	10.00	0.131	115	30-140			
Surrogate: 1,4-Dioxane-d8	*2.39*		µg/L	10.00		23.9	15-110			
Matrix Spike Dup (B391403-MSD1)	**Source: 24K0186-12**			Prepared: 11/05/24 Analyzed: 11/12/24						
1,4-Dioxane	11.1	0.20	µg/L	10.00	0.131	110	30-140	4.32	30	
Surrogate: 1,4-Dioxane-d8	*2.50*		µg/L	10.00		25.0	15-110			
Batch B391934 - SW-846 3546										
Blank (B391934-BLK1)				Prepared: 11/11/24 Analyzed: 11/15/24						
1,4-Dioxane	ND	0.049	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.209*		mg/Kg wet	0.4943		42.3	15-110			
LCS (B391934-BS1)				Prepared: 11/11/24 Analyzed: 11/15/24						
1,4-Dioxane	0.523	0.049	mg/Kg wet	0.4936		106	40-140			
Surrogate: 1,4-Dioxane-d8	*0.230*		mg/Kg wet	0.4936		46.6	15-110			

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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 B391934 - SW-846 3546										
LCS Dup (B391934-BSD1)				Prepared: 11/11/24 Analyzed: 11/15/24						
1,4-Dioxane	0.568	0.049	mg/Kg wet	0.4929		115	40-140	8.34	30	
Surrogate: 1,4-Dioxane-d8	*0.225*		mg/Kg wet	0.4929		45.7	15-110			
Matrix Spike (B391934-MS1)		**Source: 24K0186-07**		Prepared: 11/11/24 Analyzed: 11/18/24						
1,4-Dioxane	0.548	0.053	mg/Kg dry	0.5291	ND	104	30-140			
Surrogate: 1,4-Dioxane-d8	*0.225*		mg/Kg dry	0.5291		42.6	15-110			
Matrix Spike Dup (B391934-MSD1)		**Source: 24K0186-07**		Prepared: 11/11/24 Analyzed: 11/18/24						
1,4-Dioxane	0.566	0.053	mg/Kg dry	0.5280	ND	107	30-140	3.29	30	
Surrogate: 1,4-Dioxane-d8	*0.170*		mg/Kg dry	0.5280		32.1	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 B392719 - EPA 1633										
Blank (B392719-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	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	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*91.1*		ng/L	78.84		116	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 B392719 - EPA 1633										
Blank (B392719-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Surrogate: 13C5-PFPeA	*47.7*		ng/L	39.42		121	40-130			
Surrogate: 13C5-PFHxA	*22.8*		ng/L	19.71		116	40-130			
Surrogate: 13C4-PFHpA	*23.7*		ng/L	19.71		120	40-130			
Surrogate: 13C8-PFOA	*22.2*		ng/L	19.71		113	40-130			
Surrogate: 13C9-PFNA	*11.8*		ng/L	9.855		119	40-130			
Surrogate: 13C6-PFDA	*11.1*		ng/L	9.855		112	40-130			
Surrogate: 13C7-PFUnA	*10.8*		ng/L	9.855		110	30-130			
Surrogate: 13C2-PFDoA	*9.57*		ng/L	9.855		97.1	10-130			
Surrogate: 13C2-PFTeDA	*8.52*		ng/L	9.855		86.4	10-130			
Surrogate: 13C3-PFBS	*22.0*		ng/L	19.71		112	40-135			
Surrogate: 13C3-PFHxS	*22.0*		ng/L	19.71		111	40-130			
Surrogate: 13C8-PFOS	*22.2*		ng/L	19.71		113	40-130			
Surrogate: 13C2-4:2FTS	*51.0*		ng/L	39.42		129	40-200			
Surrogate: 13C2-6:2FTS	*47.9*		ng/L	39.42		122	40-200			
Surrogate: 13C2-8:2FTS	*45.4*		ng/L	39.42		115	40-300			
Surrogate: 13C8-PFOSA	*22.9*		ng/L	19.71		116	40-130			
Surrogate: D3-NMeFOSA	*19.8*		ng/L	19.71		100	10-130			
Surrogate: D5-NEtFOSA	*20.4*		ng/L	19.71		103	10-130			
Surrogate: D3-NMeFOSAA	*40.7*		ng/L	39.42		103	40-170			
Surrogate: D5-NEtFOSAA	*41.1*		ng/L	39.42		104	25-135			
Surrogate: D7-NMeFOSE	*226*		ng/L	197.1		115	10-130			
Surrogate: D9-NEtFOSE	*213*		ng/L	197.1		108	10-130			
Surrogate: 13C3-HFPO-DA	*99.9*		ng/L	78.84		127	40-130			
LCS (B392719-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Perfluorobutanoic acid (PFBA)	76.7	6.3	ng/L	78.65		97.5	70-140			
Perfluoropentanoic acid (PFPeA)	39.0	3.1	ng/L	39.32		99.2	65-135			
Perfluorohexanoic acid (PFHxA)	19.6	1.6	ng/L	19.66		99.6	70-145			
Perfluoroheptanoic acid (PFHpA)	19.6	1.6	ng/L	19.66		99.8	70-150			
Perfluorooctanoic acid (PFOA)	19.7	1.6	ng/L	19.66		100	70-150			
Perfluorononanoic acid (PFNA)	20.7	1.6	ng/L	19.66		105	70-150			
Perfluorodecanoic acid (PFDA)	19.4	1.6	ng/L	19.66		98.5	70-140			
Perfluoroundecanoic acid (PFUnA)	19.3	1.6	ng/L	19.66		98.0	70-145			
Perfluorododecanoic acid (PFDoA)	20.4	1.6	ng/L	19.66		104	70-140			
Perfluorotridecanoic acid (PFTrDA)	19.7	1.6	ng/L	19.66		100	65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.1	1.6	ng/L	19.66		102	60-140			
Perfluorobutanesulfonic acid (PFBS)	17.8	1.6	ng/L	17.46		102	60-145			
Perfluoropentanesulfonic acid (PFPeS)	18.3	1.6	ng/L	18.48		99.1	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.8	1.6	ng/L	17.93		99.1	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	18.8	1.6	ng/L	18.72		100	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.5	1.6	ng/L	18.25		95.9	55-150			
Perfluorononanesulfonic acid (PFNS)	19.1	1.6	ng/L	18.88		101	65-145			
Perfluorodecanesulfonic acid (PFDS)	16.8	1.6	ng/L	18.95		88.5	60-145			
Perfluorododecanesulfonic acid (PFDoS)	17.1	1.6	ng/L	19.03		89.9	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	75.8	6.3	ng/L	73.69		103	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	73.6	6.3	ng/L	74.79		98.4	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	71.9	6.3	ng/L	75.50		95.2	60-150			
Perfluorooctanesulfonamide (PFOSA)	20.3	1.6	ng/L	19.66		103	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	20.1	1.6	ng/L	19.66		102	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 B392719 - EPA 1633										
LCS (B392719-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.9	1.6	ng/L	19.66		96.2	65-145			
N-MeFOSAA (NMeFOSAA)	22.2	1.6	ng/L	19.66		113	50-140			
N-EtFOSAA (NEtFOSAA)	18.4	1.6	ng/L	19.66		93.6	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	200	16	ng/L	196.6		102	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	197	16	ng/L	196.6		100	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	81.2	6.3	ng/L	78.65		103	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	73.1	6.3	ng/L	74.32		98.3	65-145			
9Cl-PF3ONS (F53B Minor)	75.5	6.3	ng/L	73.38		103	70-155			
11Cl-PF3OUdS (F53B Major)	74.6	6.3	ng/L	74.16		101	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	90.0	7.9	ng/L	98.31		91.6	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	544	39	ng/L	491.5		111	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	538	39	ng/L	491.5		109	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	35.4	3.1	ng/L	35.08		101	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	37.4	3.1	ng/L	39.32		95.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	38.9	3.1	ng/L	39.32		99.0	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	44.1	3.1	ng/L	39.32		112	50-150			
Surrogate: 13C4-PFBA	*71.6*		ng/L	78.65		91.0	5-130			
Surrogate: 13C5-PFPeA	*36.8*		ng/L	39.32		93.5	40-130			
Surrogate: 13C5-PFHxA	*17.9*		ng/L	19.66		90.9	40-130			
Surrogate: 13C4-PFHpA	*18.1*		ng/L	19.66		91.8	40-130			
Surrogate: 13C8-PFOA	*16.4*		ng/L	19.66		83.3	40-130			
Surrogate: 13C9-PFNA	*8.58*		ng/L	9.831		87.3	40-130			
Surrogate: 13C6-PFDA	*9.28*		ng/L	9.831		94.4	40-130			
Surrogate: 13C7-PFUnA	*8.60*		ng/L	9.831		87.5	30-130			
Surrogate: 13C2-PFDoA	*7.95*		ng/L	9.831		80.8	10-130			
Surrogate: 13C2-PFTeDA	*7.52*		ng/L	9.831		76.5	10-130			
Surrogate: 13C3-PFBS	*17.5*		ng/L	19.66		89.0	40-135			
Surrogate: 13C3-PFHxS	*18.1*		ng/L	19.66		92.1	40-130			
Surrogate: 13C8-PFOS	*17.7*		ng/L	19.66		90.1	40-130			
Surrogate: 13C2-4:2FTS	*41.1*		ng/L	39.32		104	40-200			
Surrogate: 13C2-6:2FTS	*37.1*		ng/L	39.32		94.4	40-200			
Surrogate: 13C2-8:2FTS	*39.7*		ng/L	39.32		101	40-300			
Surrogate: 13C8-PFOSA	*16.9*		ng/L	19.66		85.9	40-130			
Surrogate: D3-NMeFOSA	*14.0*		ng/L	19.66		71.3	10-130			
Surrogate: D5-NEtFOSA	*14.1*		ng/L	19.66		71.7	10-130			
Surrogate: D3-NMeFOSAA	*32.7*		ng/L	39.32		83.2	40-170			
Surrogate: D5-NEtFOSAA	*34.7*		ng/L	39.32		88.2	25-135			
Surrogate: D7-NMeFOSE	*159*		ng/L	196.6		80.7	10-130			
Surrogate: D9-NEtFOSE	*153*		ng/L	196.6		77.9	10-130			
Surrogate: 13C3-HFPO-DA	*76.9*		ng/L	78.65		97.7	40-130			
MRL Check (B392719-MRL1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Perfluorobutanoic acid (PFBA)	6.21	6.3	ng/L	6.281		98.9	70-140			J
Perfluoropentanoic acid (PFPeA)	2.99	3.1	ng/L	3.141		95.1	65-135			J

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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 B392719 - EPA 1633										
MRL Check (B392719-MRL1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Perfluorohexanoic acid (PFHxA)	1.42	1.6	ng/L	1.570		90.4	70-145			J
Perfluoroheptanoic acid (PFHpA)	1.36	1.6	ng/L	1.570		86.4	70-150			J
Perfluorooctanoic acid (PFOA)	1.50	1.6	ng/L	1.570		95.4	70-150			J
Perfluorononanoic acid (PFNA)	1.63	1.6	ng/L	1.570		103	70-150			
Perfluorodecanoic acid (PFDA)	1.48	1.6	ng/L	1.570		94.4	70-140			J
Perfluoroundecanoic acid (PFUnA)	1.30	1.6	ng/L	1.570		82.5	70-145			J
Perfluorododecanoic acid (PFDoA)	1.70	1.6	ng/L	1.570		108	70-140			
Perfluorotridecanoic acid (PFTrDA)	1.46	1.6	ng/L	1.570		92.9	65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.50	1.6	ng/L	1.570		95.7	60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.40	1.6	ng/L	1.394		101	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.44	1.6	ng/L	1.476		97.8	65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.77	1.6	ng/L	1.432		124	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	1.39	1.6	ng/L	1.495		92.8	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.46	1.6	ng/L	1.457		100	55-150			J
Perfluorononanesulfonic acid (PFNS)	1.48	1.6	ng/L	1.508		98.1	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.36	1.6	ng/L	1.514		90.0	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.51	1.6	ng/L	1.520		99.1	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.66	6.3	ng/L	5.886		96.2	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.50	6.3	ng/L	5.974		92.0	65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.56	6.3	ng/L	6.030		109	60-150			
Perfluorooctanesulfonamide (PFOSA)	1.59	1.6	ng/L	1.570		101	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.71	1.6	ng/L	1.570		109	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.44	1.6	ng/L	1.570		91.7	65-145			J
N-MeFOSAA (NMeFOSAA)	2.06	1.6	ng/L	1.570		131	50-140			
N-EtFOSAA (NEtFOSAA)	1.58	1.6	ng/L	1.570		101	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	15.3	16	ng/L	15.70		97.3	70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	15.5	16	ng/L	15.70		98.6	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.44	6.3	ng/L	6.281		103	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.84	6.3	ng/L	5.936		98.5	65-145			J
9Cl-PF3ONS (F53B Minor)	6.08	6.3	ng/L	5.861		104	70-155			J
11Cl-PF3OUdS (F53B Major)	5.88	6.3	ng/L	5.923		99.2	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	8.22	7.9	ng/L	7.852		105	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	40.9	39	ng/L	39.26		104	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	44.2	39	ng/L	39.26		113	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.79	3.1	ng/L	2.802		99.5	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.13	3.1	ng/L	3.141		99.5	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.31	3.1	ng/L	3.141		105	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.37	3.1	ng/L	3.141		107	50-150			
Surrogate: 13C4-PFBA	*74.8*		ng/L	78.52		95.3	5-130			
Surrogate: 13C5-PFPeA	*38.6*		ng/L	39.26		98.4	40-130			
Surrogate: 13C5-PFHxA	*19.0*		ng/L	19.63		97.0	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 B392719 - EPA 1633										
MRL Check (B392719-MRL1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Surrogate: 13C4-PFHpA	*18.7*		ng/L	19.63		95.1	40-130			
Surrogate: 13C8-PFOA	*18.3*		ng/L	19.63		93.3	40-130			
Surrogate: 13C9-PFNA	*8.94*		ng/L	9.815		91.1	40-130			
Surrogate: 13C6-PFDA	*8.82*		ng/L	9.815		89.9	40-130			
Surrogate: 13C7-PFUnA	*8.67*		ng/L	9.815		88.3	30-130			
Surrogate: 13C2-PFDoA	*7.84*		ng/L	9.815		79.9	10-130			
Surrogate: 13C2-PFTeDA	*7.18*		ng/L	9.815		73.2	10-130			
Surrogate: 13C3-PFBS	*18.9*		ng/L	19.63		96.2	40-135			
Surrogate: 13C3-PFHxS	*17.2*		ng/L	19.63		87.8	40-130			
Surrogate: 13C8-PFOS	*18.8*		ng/L	19.63		95.6	40-130			
Surrogate: 13C2-4:2FTS	*42.7*		ng/L	39.26		109	40-200			
Surrogate: 13C2-6:2FTS	*38.9*		ng/L	39.26		99.2	40-200			
Surrogate: 13C2-8:2FTS	*37.7*		ng/L	39.26		96.1	40-300			
Surrogate: 13C8-PFOSA	*18.8*		ng/L	19.63		95.8	40-130			
Surrogate: D3-NMeFOSA	*14.5*		ng/L	19.63		73.7	10-130			
Surrogate: D5-NEtFOSA	*14.4*		ng/L	19.63		73.5	10-130			
Surrogate: D3-NMeFOSAA	*35.6*		ng/L	39.26		90.7	40-170			
Surrogate: D5-NEtFOSAA	*36.1*		ng/L	39.26		91.9	25-135			
Surrogate: D7-NMeFOSE	*176*		ng/L	196.3		89.9	10-130			
Surrogate: D9-NEtFOSE	*164*		ng/L	196.3		83.3	10-130			
Surrogate: 13C3-HFPO-DA	*80.6*		ng/L	78.52		103	40-130			
Batch B392724 - EPA 1633										
Blank (B392724-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.19	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.19	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.19	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.19	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.19	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.19	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.19	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.19	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	µg/kg wet							

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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 B392724 - EPA 1633										
Blank (B392724-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.19	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.19	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.97	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.8	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.8	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*6.63*		µg/kg wet	7.758		85.5	8-130			
Surrogate: 13C5-PFPeA	*3.55*		µg/kg wet	3.879		91.6	35-130			
Surrogate: 13C5-PFHxA	*1.80*		µg/kg wet	1.939		92.9	40-130			
Surrogate: 13C4-PFHpA	*1.79*		µg/kg wet	1.939		92.2	40-130			
Surrogate: 13C8-PFOA	*1.83*		µg/kg wet	1.939		94.6	40-130			
Surrogate: 13C9-PFNA	*0.896*		µg/kg wet	0.9697		92.3	40-130			
Surrogate: 13C6-PFDA	*0.871*		µg/kg wet	0.9697		89.8	40-130			
Surrogate: 13C7-PFUnA	*0.945*		µg/kg wet	0.9697		97.5	40-130			
Surrogate: 13C2-PFDoA	*0.928*		µg/kg wet	0.9697		95.7	40-130			
Surrogate: 13C2-PFTeDA	*0.849*		µg/kg wet	0.9697		87.5	20-130			
Surrogate: 13C3-PFBS	*1.87*		µg/kg wet	1.939		96.2	40-135			
Surrogate: 13C3-PFHxS	*1.82*		µg/kg wet	1.939		94.0	40-130			
Surrogate: 13C8-PFOS	*1.76*		µg/kg wet	1.939		90.7	40-130			
Surrogate: 13C2-4:2FTS	*4.22*		µg/kg wet	3.879		109	40-165			
Surrogate: 13C2-6:2FTS	*3.93*		µg/kg wet	3.879		101	40-215			
Surrogate: 13C2-8:2FTS	*3.69*		µg/kg wet	3.879		95.2	40-275			
Surrogate: 13C8-PFOSA	*1.60*		µg/kg wet	1.939		82.7	40-130			
Surrogate: D3-NMeFOSA	*1.48*		µg/kg wet	1.939		76.3	10-130			
Surrogate: D5-NEtFOSA	*1.56*		µg/kg wet	1.939		80.3	10-130			
Surrogate: D3-NMeFOSAA	*3.47*		µg/kg wet	3.879		89.4	40-135			
Surrogate: D5-NEtFOSAA	*3.43*		µg/kg wet	3.879		88.3	40-150			
Surrogate: D7-NMeFOSE	*16.1*		µg/kg wet	19.39		83.2	20-130			
Surrogate: D9-NEtFOSE	*15.9*		µg/kg wet	19.39		82.0	15-130			
Surrogate: 13C3-HFPO-DA	*7.20*		µg/kg wet	7.758		92.8	40-130			
LCS (B392724-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	8.65	0.78	µg/kg wet	7.846		110	70-140			
Perfluoropentanoic acid (PFPeA)	4.41	0.39	µg/kg wet	3.923		112	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 B392724 - EPA 1633										
LCS (B392724-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorohexanoic acid (PFHxA)	2.22	0.20	µg/kg wet	1.962		113	65-140			
Perfluoroheptanoic acid (PFHpA)	2.12	0.20	µg/kg wet	1.962		108	65-145			
Perfluorooctanoic acid (PFOA)	2.09	0.20	µg/kg wet	1.962		107	70-150			
Perfluorononanoic acid (PFNA)	2.19	0.20	µg/kg wet	1.962		112	70-155			
Perfluorodecanoic acid (PFDA)	2.30	0.20	µg/kg wet	1.962		117	70-155			
Perfluoroundecanoic acid (PFUnA)	2.32	0.20	µg/kg wet	1.962		118	70-155			
Perfluorododecanoic acid (PFDoA)	2.32	0.20	µg/kg wet	1.962		118	70-150			
Perfluorotridecanoic acid (PFTrDA)	2.15	0.20	µg/kg wet	1.962		110	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.30	0.20	µg/kg wet	1.962		117	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.95	0.20	µg/kg wet	1.742		112	65-145			
Perfluoropentanesulfonic acid (PFPeS)	2.15	0.20	µg/kg wet	1.844		117	55-160			
Perfluorohexanesulfonic acid (PFHxS)	2.01	0.20	µg/kg wet	1.789		112	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.06	0.20	µg/kg wet	1.867		110	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.93	0.20	µg/kg wet	1.820		106	65-160			
Perfluorononanesulfonic acid (PFNS)	2.20	0.20	µg/kg wet	1.883		117	55-140			
Perfluorodecanesulfonic acid (PFDS)	2.13	0.20	µg/kg wet	1.891		113	40-155			
Perfluorododecanesulfonic acid (PFDoS)	2.02	0.20	µg/kg wet	1.899		107	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.92	0.78	µg/kg wet	7.352		121	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.23	0.78	µg/kg wet	7.462		124	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.91	0.78	µg/kg wet	7.532		118	70-150			
Perfluorooctanesulfonamide (PFOSA)	2.15	0.20	µg/kg wet	1.962		110	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.16	0.20	µg/kg wet	1.962		110	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.17	0.20	µg/kg wet	1.962		111	70-140			
N-MeFOSAA (NMeFOSAA)	1.96	0.20	µg/kg wet	1.962		99.7	65-155			
N-EtFOSAA (NEtFOSAA)	2.06	0.20	µg/kg wet	1.962		105	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	21.7	2.0	µg/kg wet	19.62		110	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.8	2.0	µg/kg wet	19.62		111	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.85	0.78	µg/kg wet	7.846		113	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.02	0.78	µg/kg wet	7.415		108	70-160			
9Cl-PF3ONS (F53B Minor)	8.29	0.78	µg/kg wet	7.321		113	70-150			
11Cl-PF3OUdS (F53B Major)	8.89	0.78	µg/kg wet	7.399		120	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	7.70	0.98	µg/kg wet	9.808		78.5	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	53.2	4.9	µg/kg wet	49.04		108	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	51.2	4.9	µg/kg wet	49.04		104	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.33	0.39	µg/kg wet	3.499		124	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.41	0.39	µg/kg wet	3.923		113	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.32	0.39	µg/kg wet	3.923		110	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.54	0.39	µg/kg wet	3.923		116	60-155			
Surrogate: 13C4-PFBA	*6.48*		µg/kg wet	7.846		82.6	8-130			
Surrogate: 13C5-PFPeA	*3.48*		µg/kg wet	3.923		88.6	35-130			
Surrogate: 13C5-PFHxA	*1.69*		µg/kg wet	1.962		86.0	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 B392724 - EPA 1633										
LCS (B392724-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Surrogate: 13C4-PFHpA	*1.75*		µg/kg wet	1.962		89.5	40-130			
Surrogate: 13C8-PFOA	*1.84*		µg/kg wet	1.962		93.9	40-130			
Surrogate: 13C9-PFNA	*0.834*		µg/kg wet	0.9808		85.0	40-130			
Surrogate: 13C6-PFDA	*0.890*		µg/kg wet	0.9808		90.8	40-130			
Surrogate: 13C7-PFUnA	*0.886*		µg/kg wet	0.9808		90.3	40-130			
Surrogate: 13C2-PFDoA	*0.868*		µg/kg wet	0.9808		88.5	40-130			
Surrogate: 13C2-PFTeDA	*0.827*		µg/kg wet	0.9808		84.3	20-130			
Surrogate: 13C3-PFBS	*1.66*		µg/kg wet	1.962		84.5	40-135			
Surrogate: 13C3-PFHxS	*1.70*		µg/kg wet	1.962		86.9	40-130			
Surrogate: 13C8-PFOS	*1.78*		µg/kg wet	1.962		90.9	40-130			
Surrogate: 13C2-4:2FTS	*3.56*		µg/kg wet	3.923		90.9	40-165			
Surrogate: 13C2-6:2FTS	*3.46*		µg/kg wet	3.923		88.1	40-215			
Surrogate: 13C2-8:2FTS	*3.85*		µg/kg wet	3.923		98.1	40-275			
Surrogate: 13C8-PFOSA	*1.59*		µg/kg wet	1.962		81.2	40-130			
Surrogate: D3-NMeFOSA	*1.46*		µg/kg wet	1.962		74.4	10-130			
Surrogate: D5-NEtFOSA	*1.53*		µg/kg wet	1.962		78.1	10-130			
Surrogate: D3-NMeFOSAA	*3.33*		µg/kg wet	3.923		84.8	40-135			
Surrogate: D5-NEtFOSAA	*3.34*		µg/kg wet	3.923		85.3	40-150			
Surrogate: D7-NMeFOSE	*16.0*		µg/kg wet	19.62		81.5	20-130			
Surrogate: D9-NEtFOSE	*16.0*		µg/kg wet	19.62		81.8	15-130			
Surrogate: 13C3-HFPO-DA	*7.19*		µg/kg wet	7.846		91.6	40-130			
MRL Check (B392724-MRL1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	0.767	0.77	µg/kg wet	0.7723		99.3	70-140			J
Perfluoropentanoic acid (PFPeA)	0.334	0.39	µg/kg wet	0.3862		86.6	60-150			J
Perfluorohexanoic acid (PFHxA)	0.195	0.19	µg/kg wet	0.1931		101	65-140			
Perfluoroheptanoic acid (PFHpA)	0.192	0.19	µg/kg wet	0.1931		99.3	65-145			J
Perfluorooctanoic acid (PFOA)	0.181	0.19	µg/kg wet	0.1931		93.9	70-150			J
Perfluorononanoic acid (PFNA)	0.185	0.19	µg/kg wet	0.1931		95.7	70-155			J
Perfluorodecanoic acid (PFDA)	0.175	0.19	µg/kg wet	0.1931		90.5	70-155			J
Perfluoroundecanoic acid (PFUnA)	0.176	0.19	µg/kg wet	0.1931		91.0	70-155			J
Perfluorododecanoic acid (PFDoA)	0.179	0.19	µg/kg wet	0.1931		92.5	70-150			J
Perfluorotridecanoic acid (PFTrDA)	0.174	0.19	µg/kg wet	0.1931		89.9	65-150			J
Perfluorotetradecanoic acid (PFTeDA)	0.176	0.19	µg/kg wet	0.1931		91.1	65-150			J
Perfluorobutanesulfonic acid (PFBS)	0.150	0.19	µg/kg wet	0.1715		87.7	65-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.19	µg/kg wet	0.1815		104	55-160			J
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.19	µg/kg wet	0.1761		103	60-150			J
Perfluoroheptanesulfonic acid (PFHpS)	0.179	0.19	µg/kg wet	0.1838		97.1	65-155			J
Perfluorooctanesulfonic acid (PFOS)	0.180	0.19	µg/kg wet	0.1792		100	65-160			J
Perfluorononanesulfonic acid (PFNS)	0.194	0.19	µg/kg wet	0.1854		105	55-140			
Perfluorodecanesulfonic acid (PFDS)	0.173	0.19	µg/kg wet	0.1861		93.1	40-155			J
Perfluorododecanesulfonic acid (PFDoS)	0.191	0.19	µg/kg wet	0.1869		102	25-160			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.686	0.77	µg/kg wet	0.7237		94.8	60-150			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.674	0.77	µg/kg wet	0.7345		91.8	55-200			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.783	0.77	µg/kg wet	0.7415		106	70-150			
Perfluorooctanesulfonamide (PFOSA)	0.174	0.19	µg/kg wet	0.1931		90.2	70-140			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.173	0.19	µg/kg wet	0.1931		89.6	70-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.182	0.19	µg/kg wet	0.1931		94.0	70-140			J
N-MeFOSAA (NMeFOSAA)	0.189	0.19	µg/kg wet	0.1931		97.9	65-155			J

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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 B392724 - EPA 1633										
MRL Check (B392724-MRL1)				Prepared: 11/27/24 Analyzed: 12/03/24						
N-EtFOSAA (NEtFOSAA)	0.176	0.19	µg/kg wet	0.1931		91.3	65-165			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.72	1.9	µg/kg wet	1.931		89.3	70-140			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.69	1.9	µg/kg wet	1.931		87.4	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.736	0.77	µg/kg wet	0.7723		95.3	70-145			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.737	0.77	µg/kg wet	0.7299		101	70-160			J
9Cl-PF3ONS (F53B Minor)	0.710	0.77	µg/kg wet	0.7206		98.5	70-150			J
11Cl-PF3OUdS (F53B Major)	0.712	0.77	µg/kg wet	0.7283		97.8	45-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	0.629	0.97	µg/kg wet	0.9654		65.2	45-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	4.12	4.8	µg/kg wet	4.827		85.5	60-130			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	3.95	4.8	µg/kg wet	4.827		81.8	60-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.360	0.39	µg/kg wet	0.3445		104	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.362	0.39	µg/kg wet	0.3862		93.7	30-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.389	0.39	µg/kg wet	0.3862		101	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.372	0.39	µg/kg wet	0.3862		96.3	60-155			J
Surrogate: 13C4-PFBA	*7.31*		µg/kg wet	7.723		94.6	8-130			
Surrogate: 13C5-PFPeA	*3.72*		µg/kg wet	3.862		96.3	35-130			
Surrogate: 13C5-PFHxA	*1.83*		µg/kg wet	1.931		94.7	40-130			
Surrogate: 13C4-PFHpA	*1.83*		µg/kg wet	1.931		94.9	40-130			
Surrogate: 13C8-PFOA	*1.89*		µg/kg wet	1.931		98.1	40-130			
Surrogate: 13C9-PFNA	*0.873*		µg/kg wet	0.9654		90.4	40-130			
Surrogate: 13C6-PFDA	*0.969*		µg/kg wet	0.9654		100	40-130			
Surrogate: 13C7-PFUnA	*0.967*		µg/kg wet	0.9654		100	40-130			
Surrogate: 13C2-PFDoA	*0.998*		µg/kg wet	0.9654		103	40-130			
Surrogate: 13C2-PFTeDA	*0.916*		µg/kg wet	0.9654		94.9	20-130			
Surrogate: 13C3-PFBS	*1.84*		µg/kg wet	1.931		95.5	40-135			
Surrogate: 13C3-PFHxS	*1.82*		µg/kg wet	1.931		94.4	40-130			
Surrogate: 13C8-PFOS	*1.83*		µg/kg wet	1.931		94.6	40-130			
Surrogate: 13C2-4:2FTS	*4.08*		µg/kg wet	3.862		106	40-165			
Surrogate: 13C2-6:2FTS	*3.99*		µg/kg wet	3.862		103	40-215			
Surrogate: 13C2-8:2FTS	*4.04*		µg/kg wet	3.862		105	40-275			
Surrogate: 13C8-PFOSA	*1.70*		µg/kg wet	1.931		88.2	40-130			
Surrogate: D3-NMeFOSA	*1.61*		µg/kg wet	1.931		83.5	10-130			
Surrogate: D5-NEtFOSA	*1.58*		µg/kg wet	1.931		81.9	10-130			
Surrogate: D3-NMeFOSAA	*3.47*		µg/kg wet	3.862		89.9	40-135			
Surrogate: D5-NEtFOSAA	*3.36*		µg/kg wet	3.862		87.0	40-150			
Surrogate: D7-NMeFOSE	*17.1*		µg/kg wet	19.31		88.5	20-130			
Surrogate: D9-NEtFOSE	*17.1*		µg/kg wet	19.31		88.7	15-130			
Surrogate: 13C3-HFPO-DA	*7.81*		µg/kg wet	7.723		101	40-130			
Matrix Spike (B392724-MS2)		**Source: 24K0186-07**		Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	8.26	0.80	µg/kg dry	7.993	ND	103	70-140			
Perfluoropentanoic acid (PFPeA)	4.24	0.40	µg/kg dry	3.996	ND	106	60-150			
Perfluorohexanoic acid (PFHxA)	2.16	0.20	µg/kg dry	1.998	ND	108	65-140			
Perfluoroheptanoic acid (PFHpA)	2.18	0.20	µg/kg dry	1.998	ND	109	65-145			
Perfluorooctanoic acid (PFOA)	2.17	0.20	µg/kg dry	1.998	0.0695	105	70-150			

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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 B392724 - EPA 1633										
Matrix Spike (B392724-MS2)	**Source: 24K0186-07**			Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorononanoic acid (PFNA)	2.18	0.20	µg/kg dry	1.998	ND	109	70-155			
Perfluorodecanoic acid (PFDA)	2.22	0.20	µg/kg dry	1.998	0.0975	106	70-155			
Perfluoroundecanoic acid (PFUnA)	2.20	0.20	µg/kg dry	1.998	0.0859	106	70-155			
Perfluorododecanoic acid (PFDoA)	2.64	0.20	µg/kg dry	1.998	0.183	123	70-150			
Perfluorotridecanoic acid (PFTrDA)	2.41	0.20	µg/kg dry	1.998	0.107	115	65-150			
Perfluorotetradecanoic acid (PFTeDA)	2.36	0.20	µg/kg dry	1.998	0.125	112	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.90	0.20	µg/kg dry	1.774	ND	107	65-145			
Perfluoropentanesulfonic acid (PFPeS)	2.00	0.20	µg/kg dry	1.878	ND	107	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.92	0.20	µg/kg dry	1.822	ND	105	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.95	0.20	µg/kg dry	1.902	ND	103	65-155			
Perfluorooctanesulfonic acid (PFOS)	2.21	0.20	µg/kg dry	1.854	0.254	106	65-160			
Perfluorononanesulfonic acid (PFNS)	1.93	0.20	µg/kg dry	1.918	ND	101	55-140			
Perfluorodecanesulfonic acid (PFDS)	2.13	0.20	µg/kg dry	1.926	ND	110	40-155			
Perfluorododecanesulfonic acid (PFDoS)	2.04	0.20	µg/kg dry	1.934	ND	105	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.45	0.80	µg/kg dry	7.489	ND	113	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.89	0.80	µg/kg dry	7.601	ND	117	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.63	0.80	µg/kg dry	7.673	ND	112	70-150			
Perfluorooctanesulfonamide (PFOSA)	2.02	0.20	µg/kg dry	1.998	ND	101	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.10	0.20	µg/kg dry	1.998	ND	105	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.12	0.20	µg/kg dry	1.998	ND	106	70-140			
N-MeFOSAA (NMeFOSAA)	1.85	0.20	µg/kg dry	1.998	ND	92.7	65-155			
N-EtFOSAA (NEtFOSAA)	2.00	0.20	µg/kg dry	1.998	ND	100	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.9	2.0	µg/kg dry	19.98	ND	105	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.6	2.0	µg/kg dry	19.98	ND	103	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.25	0.80	µg/kg dry	7.993	ND	103	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.93	0.80	µg/kg dry	7.553	ND	105	70-160			
9Cl-PF3ONS (F53B Minor)	8.11	0.80	µg/kg dry	7.457	ND	109	70-150			
11Cl-PF3OUdS (F53B Major)	8.90	0.80	µg/kg dry	7.537	ND	118	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.95	1.0	µg/kg dry	9.991	ND	59.6	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	43.5	5.0	µg/kg dry	49.95	ND	87.1	60-130			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	49.5	5.0	µg/kg dry	49.95	ND	99.1	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.98	0.40	µg/kg dry	3.565	ND	112	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.28	0.40	µg/kg dry	3.996	ND	107	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.30	0.40	µg/kg dry	3.996	ND	108	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.28	0.40	µg/kg dry	3.996	ND	107	60-155			
Surrogate: 13C4-PFBA	*7.96*		µg/kg dry	7.993		99.6	8-130			
Surrogate: 13C5-PFPeA	*4.03*		µg/kg dry	3.996		101	35-130			
Surrogate: 13C5-PFHxA	*2.05*		µg/kg dry	1.998		103	40-130			
Surrogate: 13C4-PFHpA	*1.99*		µg/kg dry	1.998		99.4	40-130			
Surrogate: 13C8-PFOA	*2.18*		µg/kg dry	1.998		109	40-130			
Surrogate: 13C9-PFNA	*1.00*		µg/kg dry	0.9991		100	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 B392724 - EPA 1633										
Matrix Spike (B392724-MS2)	**Source: 24K0186-07**			Prepared: 11/27/24 Analyzed: 12/03/24						
Surrogate: 13C6-PFDA	*1.01*		µg/kg dry	0.9991		102	40-130			
Surrogate: 13C7-PFUnA	*1.07*		µg/kg dry	0.9991		107	40-130			
Surrogate: 13C2-PFDoA	*1.01*		µg/kg dry	0.9991		101	40-130			
Surrogate: 13C2-PFTeDA	*1.07*		µg/kg dry	0.9991		107	20-130			
Surrogate: 13C3-PFBS	*1.93*		µg/kg dry	1.998		96.7	40-135			
Surrogate: 13C3-PFHxS	*1.99*		µg/kg dry	1.998		99.5	40-130			
Surrogate: 13C8-PFOS	*1.99*		µg/kg dry	1.998		99.7	40-130			
Surrogate: 13C2-4:2FTS	*4.13*		µg/kg dry	3.996		103	40-165			
Surrogate: 13C2-6:2FTS	*4.76*		µg/kg dry	3.996		119	40-215			
Surrogate: 13C2-8:2FTS	*5.28*		µg/kg dry	3.996		132	40-275			
Surrogate: 13C8-PFOSA	*1.82*		µg/kg dry	1.998		91.0	40-130			
Surrogate: D3-NMeFOSA	*1.66*		µg/kg dry	1.998		83.0	10-130			
Surrogate: D5-NEtFOSA	*1.63*		µg/kg dry	1.998		81.6	10-130			
Surrogate: D3-NMeFOSAA	*3.80*		µg/kg dry	3.996		95.0	40-135			
Surrogate: D5-NEtFOSAA	*4.01*		µg/kg dry	3.996		100	40-150			
Surrogate: D7-NMeFOSE	*18.7*		µg/kg dry	19.98		93.6	20-130			
Surrogate: D9-NEtFOSE	*19.3*		µg/kg dry	19.98		96.7	15-130			
Surrogate: 13C3-HFPO-DA	*8.51*		µg/kg dry	7.993		106	40-130			
Matrix Spike Dup (B392724-MSD2)	**Source: 24K0186-07**			Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	8.25	0.79	µg/kg dry	7.926	ND	104	70-140	0.195	25	
Perfluoropentanoic acid (PFPeA)	4.29	0.40	µg/kg dry	3.963	ND	108	60-150	1.07	25	
Perfluorohexanoic acid (PFHxA)	2.20	0.20	µg/kg dry	1.981	ND	111	65-140	2.00	25	
Perfluoroheptanoic acid (PFHpA)	2.11	0.20	µg/kg dry	1.981	ND	107	65-145	3.25	25	
Perfluorooctanoic acid (PFOA)	2.18	0.20	µg/kg dry	1.981	0.0695	106	70-150	0.443	25	
Perfluorononanoic acid (PFNA)	2.12	0.20	µg/kg dry	1.981	ND	107	70-155	2.45	25	
Perfluorodecanoic acid (PFDA)	2.32	0.20	µg/kg dry	1.981	0.0975	112	70-155	4.26	25	
Perfluoroundecanoic acid (PFUnA)	2.28	0.20	µg/kg dry	1.981	0.0859	111	70-155	3.36	25	
Perfluorododecanoic acid (PFDoA)	2.38	0.20	µg/kg dry	1.981	0.183	111	70-150	10.3	25	
Perfluorotridecanoic acid (PFTrDA)	2.20	0.20	µg/kg dry	1.981	0.107	106	65-150	9.08	25	
Perfluorotetradecanoic acid (PFTeDA)	2.29	0.20	µg/kg dry	1.981	0.125	109	65-150	3.23	25	
Perfluorobutanesulfonic acid (PFBS)	1.89	0.20	µg/kg dry	1.760	ND	107	65-145	0.588	25	
Perfluoropentanesulfonic acid (PFPeS)	1.98	0.20	µg/kg dry	1.863	ND	106	55-160	1.28	25	
Perfluorohexanesulfonic acid (PFHxS)	1.81	0.20	µg/kg dry	1.807	ND	100	60-150	6.12	25	
Perfluoroheptanesulfonic acid (PFHpS)	2.01	0.20	µg/kg dry	1.886	ND	106	65-155	2.85	25	
Perfluorooctanesulfonic acid (PFOS)	2.15	0.20	µg/kg dry	1.839	0.254	103	65-160	2.96	25	
Perfluorononanesulfonic acid (PFNS)	2.11	0.20	µg/kg dry	1.902	ND	111	55-140	8.61	25	
Perfluorodecanesulfonic acid (PFDS)	2.16	0.20	µg/kg dry	1.910	ND	113	40-155	1.72	25	
Perfluorododecanesulfonic acid (PFDoS)	2.03	0.20	µg/kg dry	1.918	ND	106	25-160	0.276	25	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.60	0.79	µg/kg dry	7.427	ND	116	60-150	1.73	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.94	0.79	µg/kg dry	7.538	ND	119	55-200	0.608	25	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.38	0.79	µg/kg dry	7.609	ND	110	70-150	3.00	25	
Perfluorooctanesulfonamide (PFOSA)	2.03	0.20	µg/kg dry	1.981	ND	102	70-140	0.468	25	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.08	0.20	µg/kg dry	1.981	ND	105	70-155	1.12	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.19	0.20	µg/kg dry	1.981	ND	111	70-140	3.30	25	
N-MeFOSAA (NMeFOSAA)	1.85	0.20	µg/kg dry	1.981	ND	93.3	65-155	0.219	25	
N-EtFOSAA (NEtFOSAA)	2.01	0.20	µg/kg dry	1.981	ND	102	65-165	0.746	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.6	2.0	µg/kg dry	19.81	ND	104	70-140	1.84	25	

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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 B392724 - EPA 1633										
Matrix Spike Dup (B392724-MSD2)	**Source: 24K0186-07**			Prepared: 11/27/24 Analyzed: 12/03/24						
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.7	2.0	µg/kg dry	19.81	ND	104	70-135	0.0373	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.74	0.79	µg/kg dry	7.926	ND	110	70-145	5.84	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.89	0.79	µg/kg dry	7.490	ND	105	70-160	0.547	25	
9Cl-PF3ONS (F53B Minor)	8.15	0.79	µg/kg dry	7.395	ND	110	70-150	0.525	25	
11Cl-PF3OUdS (F53B Major)	9.04	0.79	µg/kg dry	7.474	ND	121	45-160	1.54	25	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.37	0.99	µg/kg dry	9.907	ND	54.2	45-130	10.4	25	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	43.7	5.0	µg/kg dry	49.54	ND	88.2	60-130	0.388	25	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	48.0	5.0	µg/kg dry	49.54	ND	96.9	60-150	3.07	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.15	0.40	µg/kg dry	3.535	ND	117	70-140	4.07	25	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.32	0.40	µg/kg dry	3.963	ND	109	30-140	1.00	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.14	0.40	µg/kg dry	3.963	ND	105	60-150	3.83	25	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.34	0.40	µg/kg dry	3.963	ND	109	60-155	1.32	25	
Surrogate: 13C4-PFBA	*7.84*		µg/kg dry	7.926		99.0	8-130			
Surrogate: 13C5-PFPeA	*4.04*		µg/kg dry	3.963		102	35-130			
Surrogate: 13C5-PFHxA	*2.04*		µg/kg dry	1.981		103	40-130			
Surrogate: 13C4-PFHpA	*2.04*		µg/kg dry	1.981		103	40-130			
Surrogate: 13C8-PFOA	*2.00*		µg/kg dry	1.981		101	40-130			
Surrogate: 13C9-PFNA	*0.945*		µg/kg dry	0.9907		95.4	40-130			
Surrogate: 13C6-PFDA	*0.991*		µg/kg dry	0.9907		100	40-130			
Surrogate: 13C7-PFUnA	*1.06*		µg/kg dry	0.9907		107	40-130			
Surrogate: 13C2-PFDoA	*1.08*		µg/kg dry	0.9907		109	40-130			
Surrogate: 13C2-PFTeDA	*1.06*		µg/kg dry	0.9907		107	20-130			
Surrogate: 13C3-PFBS	*1.87*		µg/kg dry	1.981		94.4	40-135			
Surrogate: 13C3-PFHxS	*1.94*		µg/kg dry	1.981		97.8	40-130			
Surrogate: 13C8-PFOS	*2.02*		µg/kg dry	1.981		102	40-130			
Surrogate: 13C2-4:2FTS	*4.85*		µg/kg dry	3.963		122	40-165			
Surrogate: 13C2-6:2FTS	*5.02*		µg/kg dry	3.963		127	40-215			
Surrogate: 13C2-8:2FTS	*7.92*		µg/kg dry	3.963		200	40-275			
Surrogate: 13C8-PFOSA	*1.83*		µg/kg dry	1.981		92.5	40-130			
Surrogate: D3-NMeFOSA	*1.68*		µg/kg dry	1.981		84.7	10-130			
Surrogate: D5-NEtFOSA	*1.63*		µg/kg dry	1.981		82.1	10-130			
Surrogate: D3-NMeFOSAA	*3.95*		µg/kg dry	3.963		99.8	40-135			
Surrogate: D5-NEtFOSAA	*4.10*		µg/kg dry	3.963		103	40-150			
Surrogate: D7-NMeFOSE	*19.1*		µg/kg dry	19.81		96.3	20-130			
Surrogate: D9-NEtFOSE	*18.7*		µg/kg dry	19.81		94.5	15-130			
Surrogate: 13C3-HFPO-DA	*8.15*		µg/kg dry	7.926		103	40-130			
Batch B392841 - EPA 1633										
Blank (B392841-BLK1)				Prepared: 11/22/24 Analyzed: 11/26/24						
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							

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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 B392841 - EPA 1633										
Blank (B392841-BLK1)				Prepared: 11/22/24 Analyzed: 11/26/24						
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	7.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*80.4*		ng/L	78.48		102	5-130			
Surrogate: 13C5-PFPeA	*39.2*		ng/L	39.24		100	40-130			
Surrogate: 13C5-PFHxA	*19.7*		ng/L	19.62		100	40-130			
Surrogate: 13C4-PFHpA	*18.0*		ng/L	19.62		91.6	40-130			
Surrogate: 13C8-PFOA	*21.4*		ng/L	19.62		109	40-130			
Surrogate: 13C9-PFNA	*9.11*		ng/L	9.810		92.9	40-130			
Surrogate: 13C6-PFDA	*9.96*		ng/L	9.810		102	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 B392841 - EPA 1633										
Blank (B392841-BLK1)				Prepared: 11/22/24 Analyzed: 11/26/24						
Surrogate: 13C7-PFUnA	*9.92*		ng/L	9.810		101	30-130			
Surrogate: 13C2-PFDoA	*9.55*		ng/L	9.810		97.4	10-130			
Surrogate: 13C2-PFTeDA	*9.42*		ng/L	9.810		96.0	10-130			
Surrogate: 13C3-PFBS	*20.1*		ng/L	19.62		103	40-135			
Surrogate: 13C3-PFHxS	*21.2*		ng/L	19.62		108	40-130			
Surrogate: 13C8-PFOS	*18.3*		ng/L	19.62		93.5	40-130			
Surrogate: 13C2-4:2FTS	*45.2*		ng/L	39.24		115	40-200			
Surrogate: 13C2-6:2FTS	*39.9*		ng/L	39.24		102	40-200			
Surrogate: 13C2-8:2FTS	*41.2*		ng/L	39.24		105	40-300			
Surrogate: 13C8-PFOSA	*15.7*		ng/L	19.62		80.1	40-130			
Surrogate: D3-NMeFOSA	*14.8*		ng/L	19.62		75.5	10-130			
Surrogate: D5-NEtFOSA	*14.1*		ng/L	19.62		71.9	10-130			
Surrogate: D3-NMeFOSAA	*34.3*		ng/L	39.24		87.4	40-170			
Surrogate: D5-NEtFOSAA	*35.5*		ng/L	39.24		90.6	25-135			
Surrogate: D7-NMeFOSE	*159*		ng/L	196.2		81.0	10-130			
Surrogate: D9-NEtFOSE	*158*		ng/L	196.2		80.5	10-130			
Surrogate: 13C3-HFPO-DA	*76.9*		ng/L	78.48		98.0	40-130			
LCS (B392841-BS1)				Prepared: 11/22/24 Analyzed: 11/26/24						
Perfluorobutanoic acid (PFBA)	67.9	6.3	ng/L	79.16		85.7	70-140			
Perfluoropentanoic acid (PFPeA)	36.8	3.2	ng/L	39.58		93.0	65-135			
Perfluorohexanoic acid (PFHxA)	17.9	1.6	ng/L	19.79		90.5	70-145			
Perfluoroheptanoic acid (PFHpA)	17.9	1.6	ng/L	19.79		90.4	70-150			
Perfluorooctanoic acid (PFOA)	17.9	1.6	ng/L	19.79		90.6	70-150			
Perfluorononanoic acid (PFNA)	18.3	1.6	ng/L	19.79		92.3	70-150			
Perfluorodecanoic acid (PFDA)	18.0	1.6	ng/L	19.79		91.2	70-140			
Perfluoroundecanoic acid (PFUnA)	17.0	1.6	ng/L	19.79		85.8	70-145			
Perfluorododecanoic acid (PFDoA)	18.4	1.6	ng/L	19.79		92.9	70-140			
Perfluorotridecanoic acid (PFTrDA)	18.4	1.6	ng/L	19.79		93.0	65-140			
Perfluorotetradecanoic acid (PFTeDA)	18.3	1.6	ng/L	19.79		92.5	60-140			
Perfluorobutanesulfonic acid (PFBS)	14.8	1.6	ng/L	17.57		84.0	60-145			
Perfluoropentanesulfonic acid (PFPeS)	16.9	1.6	ng/L	18.60		90.8	65-140			
Perfluorohexanesulfonic acid (PFHxS)	14.9	1.6	ng/L	18.05		82.7	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	16.8	1.6	ng/L	18.84		89.4	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.0	1.6	ng/L	18.36		92.6	55-150			
Perfluorononanesulfonic acid (PFNS)	15.9	1.6	ng/L	19.00		83.5	65-145			
Perfluorodecanesulfonic acid (PFDS)	16.5	1.6	ng/L	19.08		86.6	60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.5	1.6	ng/L	19.16		80.9	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	73.1	6.3	ng/L	74.17		98.5	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	66.0	6.3	ng/L	75.28		87.6	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	69.2	6.3	ng/L	75.99		91.1	60-150			
Perfluorooctanesulfonamide (PFOSA)	17.5	1.6	ng/L	19.79		88.3	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	18.3	1.6	ng/L	19.79		92.4	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.2	1.6	ng/L	19.79		96.8	65-145			
N-MeFOSAA (NMeFOSAA)	17.8	1.6	ng/L	19.79		89.9	50-140			
N-EtFOSAA (NEtFOSAA)	17.1	1.6	ng/L	19.79		86.5	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	181	16	ng/L	197.9		91.3	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	179	16	ng/L	197.9		90.2	70-135			

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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 B392841 - EPA 1633										
LCS (B392841-BS1)				Prepared: 11/22/24 Analyzed: 11/26/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	69.8	6.3	ng/L	79.16		88.2	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	70.8	6.3	ng/L	74.81		94.7	65-145			
9Cl-PF3ONS (F53B Minor)	64.5	6.3	ng/L	73.86		87.3	70-155			
11Cl-PF3OUdS (F53B Major)	63.5	6.3	ng/L	73.93		85.9	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	76.2	7.9	ng/L	98.95		77.0	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	405	40	ng/L	494.7		81.8	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	403	40	ng/L	494.7		81.5	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	32.4	3.2	ng/L	35.31		91.7	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	32.5	3.2	ng/L	39.58		82.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	34.8	3.2	ng/L	39.58		87.9	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	33.9	3.2	ng/L	39.58		85.8	50-150			
Surrogate: 13C4-PFBA	*78.2*		ng/L	79.16		98.8	5-130			
Surrogate: 13C5-PFPeA	*38.5*		ng/L	39.58		97.3	40-130			
Surrogate: 13C5-PFHxA	*19.3*		ng/L	19.79		97.4	40-130			
Surrogate: 13C4-PFHpA	*17.7*		ng/L	19.79		89.5	40-130			
Surrogate: 13C8-PFOA	*20.4*		ng/L	19.79		103	40-130			
Surrogate: 13C9-PFNA	*9.77*		ng/L	9.895		98.8	40-130			
Surrogate: 13C6-PFDA	*9.27*		ng/L	9.895		93.7	40-130			
Surrogate: 13C7-PFUnA	*9.62*		ng/L	9.895		97.2	30-130			
Surrogate: 13C2-PFDoA	*8.93*		ng/L	9.895		90.2	10-130			
Surrogate: 13C2-PFTeDA	*8.64*		ng/L	9.895		87.4	10-130			
Surrogate: 13C3-PFBS	*18.6*		ng/L	19.79		94.0	40-135			
Surrogate: 13C3-PFHxS	*19.4*		ng/L	19.79		98.0	40-130			
Surrogate: 13C8-PFOS	*19.5*		ng/L	19.79		98.5	40-130			
Surrogate: 13C2-4:2FTS	*43.0*		ng/L	39.58		109	40-200			
Surrogate: 13C2-6:2FTS	*36.8*		ng/L	39.58		92.9	40-200			
Surrogate: 13C2-8:2FTS	*37.7*		ng/L	39.58		95.2	40-300			
Surrogate: 13C8-PFOSA	*16.0*		ng/L	19.79		80.8	40-130			
Surrogate: D3-NMeFOSA	*14.3*		ng/L	19.79		72.1	10-130			
Surrogate: D5-NEtFOSA	*13.0*		ng/L	19.79		65.6	10-130			
Surrogate: D3-NMeFOSAA	*35.0*		ng/L	39.58		88.5	40-170			
Surrogate: D5-NEtFOSAA	*35.4*		ng/L	39.58		89.4	25-135			
Surrogate: D7-NMeFOSE	*159*		ng/L	197.9		80.5	10-130			
Surrogate: D9-NEtFOSE	*157*		ng/L	197.9		79.3	10-130			
Surrogate: 13C3-HFPO-DA	*79.2*		ng/L	79.16		100	40-130			
MRL Check (B392841-MRL1)				Prepared: 11/22/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	5.98	6.3	ng/L	6.301		94.9	70-140			J
Perfluoropentanoic acid (PFPeA)	2.81	3.2	ng/L	3.150		89.2	65-135			J
Perfluorohexanoic acid (PFHxA)	1.45	1.6	ng/L	1.575		92.1	70-145			J
Perfluoroheptanoic acid (PFHpA)	1.34	1.6	ng/L	1.575		85.3	70-150			J
Perfluorooctanoic acid (PFOA)	1.59	1.6	ng/L	1.575		101	70-150			
Perfluorononanoic acid (PFNA)	1.58	1.6	ng/L	1.575		100	70-150			
Perfluorodecanoic acid (PFDA)	1.42	1.6	ng/L	1.575		90.2	70-140			J
Perfluoroundecanoic acid (PFUnA)	1.63	1.6	ng/L	1.575		103	70-145			
Perfluorododecanoic acid (PFDoA)	1.40	1.6	ng/L	1.575		88.9	70-140			J
Perfluorotridecanoic acid (PFTrDA)	1.39	1.6	ng/L	1.575		88.5	65-140			J

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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 B392841 - EPA 1633										
MRL Check (B392841-MRL1)				Prepared: 11/22/24 Analyzed: 11/27/24						
Perfluorotetradecanoic acid (PFTeDA)	1.33	1.6	ng/L	1.575		84.5	60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.17	1.6	ng/L	1.399		83.6	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.47	1.6	ng/L	1.481		99.6	65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.38	1.6	ng/L	1.437		96.0	65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.41	1.6	ng/L	1.500		94.2	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.29	1.6	ng/L	1.462		88.5	55-150			J
Perfluorononanesulfonic acid (PFNS)	1.30	1.6	ng/L	1.512		86.2	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.44	1.6	ng/L	1.518		94.6	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.45	1.6	ng/L	1.525		95.3	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.01	6.3	ng/L	5.904		84.9	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.55	6.3	ng/L	5.992		92.6	65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	4.91	6.3	ng/L	6.049		81.1	60-150			J
Perfluorooctanesulfonamide (PFOSA)	1.40	1.6	ng/L	1.575		89.1	70-145			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.46	1.6	ng/L	1.575		92.5	60-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.53	1.6	ng/L	1.575		97.0	65-145			J
N-MeFOSAA (NMeFOSAA)	1.19	1.6	ng/L	1.575		75.4	50-140			J
N-EtFOSAA (NEtFOSAA)	1.41	1.6	ng/L	1.575		89.2	70-145			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	14.0	16	ng/L	15.75		88.9	70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	13.7	16	ng/L	15.75		87.0	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.82	6.3	ng/L	6.301		92.3	70-140			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.85	6.3	ng/L	5.954		98.2	65-145			J
9Cl-PF3ONS (F53B Minor)	4.88	6.3	ng/L	5.878		83.1	70-155			J
11Cl-PF3OUdS (F53B Major)	5.25	6.3	ng/L	5.941		88.3	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	6.77	7.9	ng/L	7.876		86.0	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	32.5	39	ng/L	39.38		82.6	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	32.0	39	ng/L	39.38		81.4	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.41	3.2	ng/L	2.810		85.7	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.57	3.2	ng/L	3.150		81.7	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.86	3.2	ng/L	3.150		90.9	60-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.60	3.2	ng/L	3.150		82.5	50-150			J
Surrogate: 13C4-PFBA	*61.3*		ng/L	78.76		77.8	5-130			
Surrogate: 13C5-PFPeA	*29.9*		ng/L	39.38		75.9	40-130			
Surrogate: 13C5-PFHxA	*14.8*		ng/L	19.69		75.2	40-130			
Surrogate: 13C4-PFHpA	*13.6*		ng/L	19.69		69.1	40-130			
Surrogate: 13C8-PFOA	*16.1*		ng/L	19.69		81.8	40-130			
Surrogate: 13C9-PFNA	*7.45*		ng/L	9.845		75.7	40-130			
Surrogate: 13C6-PFDA	*7.33*		ng/L	9.845		74.4	40-130			
Surrogate: 13C7-PFUnA	*7.30*		ng/L	9.845		74.2	30-130			
Surrogate: 13C2-PFDoA	*7.76*		ng/L	9.845		78.8	10-130			
Surrogate: 13C2-PFTeDA	*7.82*		ng/L	9.845		79.4	10-130			
Surrogate: 13C3-PFBS	*13.5*		ng/L	19.69		68.4	40-135			

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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 B392841 - EPA 1633										
MRL Check (B392841-MRL1)				Prepared: 11/22/24 Analyzed: 11/27/24						
Surrogate: 13C3-PFHxS	*13.8*		ng/L	19.69		70.0	40-130			
Surrogate: 13C8-PFOS	*15.0*		ng/L	19.69		76.0	40-130			
Surrogate: 13C2-4:2FTS	*35.8*		ng/L	39.38		90.8	40-200			
Surrogate: 13C2-6:2FTS	*28.9*		ng/L	39.38		73.3	40-200			
Surrogate: 13C2-8:2FTS	*29.6*		ng/L	39.38		75.1	40-300			
Surrogate: 13C8-PFOSA	*14.0*		ng/L	19.69		70.9	40-130			
Surrogate: D3-NMeFOSA	*12.7*		ng/L	19.69		64.6	10-130			
Surrogate: D5-NEtFOSA	*12.0*		ng/L	19.69		61.1	10-130			
Surrogate: D3-NMeFOSAA	*25.6*		ng/L	39.38		64.9	40-170			
Surrogate: D5-NEtFOSAA	*25.3*		ng/L	39.38		64.2	25-135			
Surrogate: D7-NMeFOSE	*138*		ng/L	196.9		70.0	10-130			
Surrogate: D9-NEtFOSE	*141*		ng/L	196.9		71.8	10-130			
Surrogate: 13C3-HFPO-DA	*61.8*		ng/L	78.76		78.5	40-130			
Matrix Spike (B392841-MS1)	**Source: 24K0186-12**			Prepared: 11/22/24 Analyzed: 11/26/24						
Perfluorobutanoic acid (PFBA)	85.5	6.8	ng/L	85.44	11.6	86.5	70-140			
Perfluoropentanoic acid (PFPeA)	53.5	3.4	ng/L	42.72	14.4	91.6	65-135			
Perfluorohexanoic acid (PFHxA)	32.1	1.7	ng/L	21.36	12.4	92.2	70-145			
Perfluoroheptanoic acid (PFHpA)	29.3	1.7	ng/L	21.36	9.18	94.2	70-150			
Perfluorooctanoic acid (PFOA)	38.3	1.7	ng/L	21.36	19.2	89.2	70-150			
Perfluorononanoic acid (PFNA)	22.7	1.7	ng/L	21.36	4.52	85.1	70-150			
Perfluorodecanoic acid (PFDA)	20.4	1.7	ng/L	21.36	1.70	87.6	70-140			
Perfluoroundecanoic acid (PFUnA)	20.1	1.7	ng/L	21.36	ND	94.0	70-145			
Perfluorododecanoic acid (PFDoA)	19.9	1.7	ng/L	21.36	ND	93.1	70-140			
Perfluorotridecanoic acid (PFTrDA)	17.6	1.7	ng/L	21.36	ND	82.3	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.9	1.7	ng/L	21.36	ND	93.0	60-140			
Perfluorobutanesulfonic acid (PFBS)	19.1	1.7	ng/L	18.97	2.60	87.0	60-145			
Perfluoropentanesulfonic acid (PFPeS)	19.9	1.7	ng/L	20.08	ND	99.1	65-140			
Perfluorohexanesulfonic acid (PFHxS)	19.2	1.7	ng/L	19.48	3.07	83.0	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	20.3	1.7	ng/L	20.34	ND	99.7	70-150			
Perfluorooctanesulfonic acid (PFOS)	27.1	1.7	ng/L	19.82	13.0	71.1	55-150			
Perfluorononanesulfonic acid (PFNS)	18.0	1.7	ng/L	20.51	ND	87.7	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.2	1.7	ng/L	20.59	ND	83.5	60-145			
Perfluorododecanesulfonic acid (PFDoS)	14.3	1.7	ng/L	20.68	ND	69.2	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	77.0	6.8	ng/L	80.06	ND	96.2	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	71.2	6.8	ng/L	81.26	ND	87.6	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	75.7	6.8	ng/L	82.03	ND	92.2	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.6	1.7	ng/L	21.36	ND	91.6	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.9	1.7	ng/L	21.36	ND	93.2	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	20.7	1.7	ng/L	21.36	ND	96.8	65-145			
N-MeFOSAA (NMeFOSAA)	19.3	1.7	ng/L	21.36	ND	90.6	50-140			
N-EtFOSAA (NEtFOSAA)	19.7	1.7	ng/L	21.36	ND	92.4	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	196	17	ng/L	213.6	ND	91.9	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	195	17	ng/L	213.6	ND	91.2	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.5	6.8	ng/L	85.44	ND	93.1	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	79.1	6.8	ng/L	80.75	ND	98.0	65-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392841 - EPA 1633										
Matrix Spike (B392841-MS1)	**Source: 24K0186-12**			Prepared: 11/22/24 Analyzed: 11/26/24						
9Cl-PF3ONS (F53B Minor)	70.8	6.8	ng/L	79.72	ND	88.8	70-155			
11Cl-PF3OUdS (F53B Major)	67.5	6.8	ng/L	79.81	ND	84.6	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	82.3	8.5	ng/L	106.8	ND	77.0	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	424	43	ng/L	534.0	ND	79.5	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	411	43	ng/L	534.0	ND	76.9	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	36.8	3.4	ng/L	38.11	ND	96.7	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.3	3.4	ng/L	42.72	ND	94.4	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	38.1	3.4	ng/L	42.72	ND	89.2	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	43.7	3.4	ng/L	42.72	ND	102	50-150			
Surrogate: 13C4-PFBA	*74.8*		ng/L	85.44		87.5	5-130			
Surrogate: 13C5-PFPeA	*37.2*		ng/L	42.72		87.0	40-130			
Surrogate: 13C5-PFHxA	*18.4*		ng/L	21.36		86.0	40-130			
Surrogate: 13C4-PFHpA	*16.8*		ng/L	21.36		78.7	40-130			
Surrogate: 13C8-PFOA	*18.8*		ng/L	21.36		88.0	40-130			
Surrogate: 13C9-PFNA	*9.12*		ng/L	10.68		85.4	40-130			
Surrogate: 13C6-PFDA	*8.84*		ng/L	10.68		82.8	40-130			
Surrogate: 13C7-PFUnA	*8.38*		ng/L	10.68		78.5	30-130			
Surrogate: 13C2-PFDoA	*8.03*		ng/L	10.68		75.2	10-130			
Surrogate: 13C2-PFTeDA	*6.96*		ng/L	10.68		65.2	10-130			
Surrogate: 13C3-PFBS	*17.9*		ng/L	21.36		83.7	40-135			
Surrogate: 13C3-PFHxS	*17.5*		ng/L	21.36		81.9	40-130			
Surrogate: 13C8-PFOS	*16.9*		ng/L	21.36		79.2	40-130			
Surrogate: 13C2-4:2FTS	*43.3*		ng/L	42.72		101	40-200			
Surrogate: 13C2-6:2FTS	*30.5*		ng/L	42.72		71.5	40-200			
Surrogate: 13C2-8:2FTS	*29.6*		ng/L	42.72		69.4	40-300			
Surrogate: 13C8-PFOSA	*14.6*		ng/L	21.36		68.3	40-130			
Surrogate: D3-NMeFOSA	*13.3*		ng/L	21.36		62.5	10-130			
Surrogate: D5-NEtFOSA	*11.5*		ng/L	21.36		53.6	10-130			
Surrogate: D3-NMeFOSAA	*27.9*		ng/L	42.72		65.2	40-170			
Surrogate: D5-NEtFOSAA	*26.6*		ng/L	42.72		62.4	25-135			
Surrogate: D7-NMeFOSE	*119*		ng/L	213.6		55.8	10-130			
Surrogate: D9-NEtFOSE	*101*		ng/L	213.6		47.4	10-130			
Surrogate: 13C3-HFPO-DA	*75.6*		ng/L	85.44		88.5	40-130			
Matrix Spike Dup (B392841-MSD1)	**Source: 24K0186-12**			Prepared: 11/22/24 Analyzed: 11/26/24						
Perfluorobutanoic acid (PFBA)	85.8	6.6	ng/L	82.47	11.6	89.9	70-140	0.346	25	
Perfluoropentanoic acid (PFPeA)	53.8	3.3	ng/L	41.24	14.4	95.5	65-135	0.453	25	
Perfluorohexanoic acid (PFHxA)	32.3	1.6	ng/L	20.62	12.4	96.4	70-145	0.535	25	
Perfluoroheptanoic acid (PFHpA)	28.8	1.6	ng/L	20.62	9.18	95.3	70-150	1.60	25	
Perfluorooctanoic acid (PFOA)	38.4	1.6	ng/L	20.62	19.2	93.2	70-150	0.408	25	
Perfluorononanoic acid (PFNA)	22.6	1.6	ng/L	20.62	4.52	87.9	70-150	0.258	25	
Perfluorodecanoic acid (PFDA)	20.4	1.6	ng/L	20.62	1.70	90.7	70-140	0.00578	25	
Perfluoroundecanoic acid (PFUnA)	19.3	1.6	ng/L	20.62	ND	93.7	70-145	3.82	25	
Perfluorododecanoic acid (PFDoA)	19.9	1.6	ng/L	20.62	ND	96.5	70-140	0.00357	25	
Perfluorotridecanoic acid (PFTrDA)	18.8	1.6	ng/L	20.62	ND	91.4	65-140	6.91	25	
Perfluorotetradecanoic acid (PFTeDA)	20.2	1.6	ng/L	20.62	ND	98.2	60-140	1.86	25	
Perfluorobutanesulfonic acid (PFBS)	19.1	1.6	ng/L	18.31	2.60	90.3	60-145	0.212	25	
Perfluoropentanesulfonic acid (PFPeS)	19.3	1.6	ng/L	19.38	ND	99.5	65-140	3.11	25	

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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 B392841 - EPA 1633										
Matrix Spike Dup (B392841-MSD1)	**Source: 24K0186-12**			Prepared: 11/22/24 Analyzed: 11/26/24						
Perfluorohexanesulfonic acid (PFHxS)	20.4	1.6	ng/L	18.80	3.07	91.9	65-145	5.59	25	
Perfluoroheptanesulfonic acid (PFHpS)	20.5	1.6	ng/L	19.63	ND	104	70-150	0.926	25	
Perfluorooctanesulfonic acid (PFOS)	27.3	1.6	ng/L	19.13	13.0	74.3	55-150	0.493	25	
Perfluorononanesulfonic acid (PFNS)	18.5	1.6	ng/L	19.79	ND	93.6	65-145	2.93	25	
Perfluorodecanesulfonic acid (PFDS)	18.0	1.6	ng/L	19.88	ND	90.5	60-145	4.45	25	
Perfluorododecanesulfonic acid (PFDoS)	15.1	1.6	ng/L	19.96	ND	75.8	50-145	5.61	25	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	78.2	6.6	ng/L	77.28	ND	101	70-145	1.58	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	76.9	6.6	ng/L	78.43	ND	98.0	65-155	7.65	25	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	74.8	6.6	ng/L	79.17	ND	94.5	60-150	1.15	25	
Perfluorooctanesulfonamide (PFOSA)	18.9	1.6	ng/L	20.62	ND	91.9	70-145	3.23	25	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.6	1.6	ng/L	20.62	ND	95.0	60-150	1.58	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	20.8	1.6	ng/L	20.62	ND	101	65-145	0.640	25	
N-MeFOSAA (NMeFOSAA)	20.4	1.6	ng/L	20.62	ND	98.7	50-140	5.06	25	
N-EtFOSAA (NEtFOSAA)	18.9	1.6	ng/L	20.62	ND	91.6	70-145	4.42	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	197	16	ng/L	206.2	ND	95.7	70-145	0.528	25	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	193	16	ng/L	206.2	ND	93.6	70-135	0.903	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.8	6.6	ng/L	82.47	ND	96.7	70-140	0.310	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	73.7	6.6	ng/L	77.93	ND	94.5	65-145	7.14	25	
9Cl-PF3ONS (F53B Minor)	71.1	6.6	ng/L	76.95	ND	92.5	70-155	0.491	25	
11Cl-PF3OUdS (F53B Major)	69.3	6.6	ng/L	77.03	ND	90.0	55-160	2.60	25	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	80.7	8.2	ng/L	103.1	ND	78.2	65-130	2.00	25	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	425	41	ng/L	515.4	ND	82.4	70-135	0.0550	25	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	420	41	ng/L	515.4	ND	81.5	50-145	2.36	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	38.2	3.3	ng/L	36.78	ND	104	70-140	3.74	25	
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.1	3.3	ng/L	41.24	ND	97.3	55-140	0.442	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	39.1	3.3	ng/L	41.24	ND	94.7	60-150	2.40	25	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	41.9	3.3	ng/L	41.24	ND	102	50-150	4.29	25	
Surrogate: 13C4-PFBA	*72.6*		ng/L	82.47		88.1	5-130			
Surrogate: 13C5-PFPeA	*33.7*		ng/L	41.24		81.7	40-130			
Surrogate: 13C5-PFHxA	*16.9*		ng/L	20.62		82.0	40-130			
Surrogate: 13C4-PFHpA	*16.1*		ng/L	20.62		78.0	40-130			
Surrogate: 13C8-PFOA	*17.3*		ng/L	20.62		84.1	40-130			
Surrogate: 13C9-PFNA	*8.90*		ng/L	10.31		86.3	40-130			
Surrogate: 13C6-PFDA	*8.67*		ng/L	10.31		84.1	40-130			
Surrogate: 13C7-PFUnA	*8.36*		ng/L	10.31		81.1	30-130			
Surrogate: 13C2-PFDoA	*8.39*		ng/L	10.31		81.4	10-130			
Surrogate: 13C2-PFTeDA	*7.11*		ng/L	10.31		69.0	10-130			
Surrogate: 13C3-PFBS	*17.2*		ng/L	20.62		83.4	40-135			
Surrogate: 13C3-PFHxS	*16.6*		ng/L	20.62		80.4	40-130			
Surrogate: 13C8-PFOS	*16.1*		ng/L	20.62		78.2	40-130			
Surrogate: 13C2-4:2FTS	*38.0*		ng/L	41.24		92.2	40-200			

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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 B392841 - EPA 1633										
Matrix Spike Dup (B392841-MSD1)	**Source: 24K0186-12**			Prepared: 11/22/24 Analyzed: 11/26/24						
Surrogate: 13C2-6:2FTS	*28.2*		ng/L	41.24		68.4	40-200			
Surrogate: 13C2-8:2FTS	*28.9*		ng/L	41.24		70.1	40-300			
Surrogate: 13C8-PFOSA	*13.8*		ng/L	20.62		67.0	40-130			
Surrogate: D3-NMeFOSA	*12.5*		ng/L	20.62		60.4	10-130			
Surrogate: D5-NEtFOSA	*11.0*		ng/L	20.62		53.3	10-130			
Surrogate: D3-NMeFOSAA	*27.3*		ng/L	41.24		66.3	40-170			
Surrogate: D5-NEtFOSAA	*25.7*		ng/L	41.24		62.2	25-135			
Surrogate: D7-NMeFOSE	*127*		ng/L	206.2		61.4	10-130			
Surrogate: D9-NEtFOSE	*121*		ng/L	206.2		58.8	10-130			
Surrogate: 13C3-HFPO-DA	*68.3*		ng/L	82.47		82.8	40-130			
Batch B393179 - EPA 1633										
Blank (B393179-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	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							

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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 B393179 - EPA 1633										
Blank (B393179-BLK1)				Prepared: 11/27/24 Analyzed: 12/03/24						
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	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*62.2*		ng/L	79.29		78.4	5-130			
Surrogate: 13C5-PFPeA	*30.7*		ng/L	39.65		77.3	40-130			
Surrogate: 13C5-PFHxA	*15.0*		ng/L	19.82		75.7	40-130			
Surrogate: 13C4-PFHpA	*14.5*		ng/L	19.82		73.3	40-130			
Surrogate: 13C8-PFOA	*15.2*		ng/L	19.82		76.6	40-130			
Surrogate: 13C9-PFNA	*6.89*		ng/L	9.911		69.6	40-130			
Surrogate: 13C6-PFDA	*6.44*		ng/L	9.911		64.9	40-130			
Surrogate: 13C7-PFUnA	*6.06*		ng/L	9.911		61.2	30-130			
Surrogate: 13C2-PFDoA	*5.34*		ng/L	9.911		53.9	10-130			
Surrogate: 13C2-PFTeDA	*4.03*		ng/L	9.911		40.6	10-130			
Surrogate: 13C3-PFBS	*15.6*		ng/L	19.82		78.7	40-135			
Surrogate: 13C3-PFHxS	*13.9*		ng/L	19.82		70.3	40-130			
Surrogate: 13C8-PFOS	*12.8*		ng/L	19.82		64.5	40-130			
Surrogate: 13C2-4:2FTS	*37.1*		ng/L	39.65		93.5	40-200			
Surrogate: 13C2-6:2FTS	*31.7*		ng/L	39.65		80.0	40-200			
Surrogate: 13C2-8:2FTS	*29.4*		ng/L	39.65		74.2	40-300			
Surrogate: 13C8-PFOSA	*10.8*		ng/L	19.82		54.4	40-130			
Surrogate: D3-NMeFOSA	*7.42*		ng/L	19.82		37.4	10-130			
Surrogate: D5-NEtFOSA	*7.20*		ng/L	19.82		36.3	10-130			
Surrogate: D3-NMeFOSAA	*22.1*		ng/L	39.65		55.6	40-170			
Surrogate: D5-NEtFOSAA	*19.5*		ng/L	39.65		49.2	25-135			
Surrogate: D7-NMeFOSE	*88.4*		ng/L	198.2		44.6	10-130			
Surrogate: D9-NEtFOSE	*76.9*		ng/L	198.2		38.8	10-130			
Surrogate: 13C3-HFPO-DA	*61.5*		ng/L	79.29		77.5	40-130			
LCS (B393179-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	72.2	6.4	ng/L	79.47		90.8	70-140			
Perfluoropentanoic acid (PFPeA)	36.9	3.2	ng/L	39.74		92.8	65-135			
Perfluorohexanoic acid (PFHxA)	18.8	1.6	ng/L	19.87		94.7	70-145			
Perfluoroheptanoic acid (PFHpA)	19.8	1.6	ng/L	19.87		99.5	70-150			
Perfluorooctanoic acid (PFOA)	18.3	1.6	ng/L	19.87		92.3	70-150			
Perfluorononanoic acid (PFNA)	19.6	1.6	ng/L	19.87		98.7	70-150			
Perfluorodecanoic acid (PFDA)	18.4	1.6	ng/L	19.87		92.5	70-140			
Perfluoroundecanoic acid (PFUnA)	18.6	1.6	ng/L	19.87		93.4	70-145			
Perfluorododecanoic acid (PFDoA)	20.6	1.6	ng/L	19.87		104	70-140			
Perfluorotridecanoic acid (PFTrDA)	16.3	1.6	ng/L	19.87		82.0	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.0	1.6	ng/L	19.87		95.4	60-140			
Perfluorobutanesulfonic acid (PFBS)	15.9	1.6	ng/L	17.64		90.2	60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.2	1.6	ng/L	18.68		91.9	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.3	1.6	ng/L	18.12		95.5	65-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393179 - EPA 1633										
LCS (B393179-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24						
Perfluoroheptanesulfonic acid (PFHpS)	20.7	1.6	ng/L	18.91		110	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.0	1.6	ng/L	18.44		92.3	55-150			
Perfluorononanesulfonic acid (PFNS)	17.2	1.6	ng/L	19.07		90.3	65-145			
Perfluorodecanesulfonic acid (PFDS)	13.8	1.6	ng/L	19.15		72.2	60-145			
Perfluorododecanesulfonic acid (PFDoS)	12.0	1.6	ng/L	19.23		62.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	77.1	6.4	ng/L	74.47		104	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	75.1	6.4	ng/L	75.58		99.4	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	72.2	6.4	ng/L	76.29		94.7	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.1	1.6	ng/L	19.87		96.2	70-145			S-29
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.7	1.6	ng/L	19.87		99.1	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.6	1.6	ng/L	19.87		93.5	65-145			
N-MeFOSAA (NMeFOSAA)	18.8	1.6	ng/L	19.87		94.6	50-140			S-29
N-EtFOSAA (NEtFOSAA)	19.7	1.6	ng/L	19.87		99.0	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	193	16	ng/L	198.7		97.4	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	191	16	ng/L	198.7		96.2	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	75.3	6.4	ng/L	79.47		94.8	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	72.9	6.4	ng/L	75.10		97.0	65-145			
9Cl-PF3ONS (F53B Minor)	71.5	6.4	ng/L	74.15		96.4	70-155			
11Cl-PF3OUdS (F53B Major)	60.4	6.4	ng/L	74.23		81.4	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	80.3	7.9	ng/L	99.34		80.8	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	418	40	ng/L	496.7		84.2	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	416	40	ng/L	496.7		83.8	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	35.2	3.2	ng/L	35.44		99.4	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	41.8	3.2	ng/L	39.74		105	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	37.5	3.2	ng/L	39.74		94.5	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	37.8	3.2	ng/L	39.74		95.2	50-150			
Surrogate: 13C4-PFBA	*51.7*		ng/L	79.47		65.1	5-130			
Surrogate: 13C5-PFPeA	*24.9*		ng/L	39.74		62.7	40-130			
Surrogate: 13C5-PFHxA	*12.1*		ng/L	19.87		60.9	40-130			
Surrogate: 13C4-PFHpA	*11.1*		ng/L	19.87		55.8	40-130			
Surrogate: 13C8-PFOA	*11.6*		ng/L	19.87		58.3	40-130			
Surrogate: 13C9-PFNA	*4.75*		ng/L	9.934		47.8	40-130			
Surrogate: 13C6-PFDA	*5.11*		ng/L	9.934		51.4	40-130			
Surrogate: 13C7-PFUnA	*4.36*		ng/L	9.934		43.9	30-130			
Surrogate: 13C2-PFDoA	*3.71*		ng/L	9.934		37.3	10-130			
Surrogate: 13C2-PFTeDA	*2.78*		ng/L	9.934		28.0	10-130			
Surrogate: 13C3-PFBS	*11.6*		ng/L	19.87		58.3	40-135			
Surrogate: 13C3-PFHxS	*10.3*		ng/L	19.87		52.0	40-130			
Surrogate: 13C8-PFOS	*9.05*		ng/L	19.87		45.5	40-130			
Surrogate: 13C2-4:2FTS	*25.3*		ng/L	39.74		63.8	40-200			
Surrogate: 13C2-6:2FTS	*23.2*		ng/L	39.74		58.3	40-200			

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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 B393179 - EPA 1633											
LCS (B393179-BS1)				Prepared: 11/27/24 Analyzed: 12/03/24							
Surrogate: 13C2-8:2FTS	*21.6*		ng/L	39.74		54.3		40-300			
Surrogate: 13C8-PFOSA	*7.85*		ng/L	19.87		**39.5**	*	40-130			S-29
Surrogate: D3-NMeFOSA	*5.76*		ng/L	19.87		29.0		10-130			
Surrogate: D5-NEtFOSA	*5.35*		ng/L	19.87		26.9		10-130			
Surrogate: D3-NMeFOSAA	*15.5*		ng/L	39.74		**39.0**	*	40-170			S-29
Surrogate: D5-NEtFOSAA	*12.2*		ng/L	39.74		30.8		25-135			
Surrogate: D7-NMeFOSE	*66.7*		ng/L	198.7		33.6		10-130			
Surrogate: D9-NEtFOSE	*58.4*		ng/L	198.7		29.4		10-130			
Surrogate: 13C3-HFPO-DA	*50.9*		ng/L	79.47		64.0		40-130			
MRL Check (B393179-MRL1)				Prepared: 11/27/24 Analyzed: 12/03/24							
Perfluorobutanoic acid (PFBA)	5.64	6.4	ng/L	6.355		88.7		70-140			J
Perfluoropentanoic acid (PFPeA)	2.78	3.2	ng/L	3.177		87.6		65-135			J
Perfluorohexanoic acid (PFHxA)	1.46	1.6	ng/L	1.589		92.1		70-145			J
Perfluoroheptanoic acid (PFHpA)	1.31	1.6	ng/L	1.589		82.5		70-150			J
Perfluorooctanoic acid (PFOA)	1.32	1.6	ng/L	1.589		82.8		70-150			J
Perfluorononanoic acid (PFNA)	1.30	1.6	ng/L	1.589		81.9		70-150			J
Perfluorodecanoic acid (PFDA)	1.59	1.6	ng/L	1.589		99.8		70-140			J
Perfluoroundecanoic acid (PFUnA)	1.15	1.6	ng/L	1.589		72.5		70-145			J
Perfluorododecanoic acid (PFDoA)	1.54	1.6	ng/L	1.589		96.7		70-140			J
Perfluorotridecanoic acid (PFTrDA)	1.18	1.6	ng/L	1.589		74.0		65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.56	1.6	ng/L	1.589		98.1		60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.17	1.6	ng/L	1.411		83.1		60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.44	1.6	ng/L	1.493		96.2		65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.46	1.6	ng/L	1.449		101		65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.41	1.6	ng/L	1.512		93.1		70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.37	1.6	ng/L	1.474		93.0		55-150			J
Perfluorononanesulfonic acid (PFNS)	1.26	1.6	ng/L	1.525		82.4		65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.15	1.6	ng/L	1.532		75.1		60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.02	1.6	ng/L	1.538		66.3		50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.47	6.4	ng/L	5.955		91.8		70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	5.16	6.4	ng/L	6.043		85.4		65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	4.71	6.4	ng/L	6.101		77.2		60-150			J
Perfluorooctanesulfonamide (PFOSA)	1.60	1.6	ng/L	1.589		101		70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.53	1.6	ng/L	1.589		96.3		60-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.51	1.6	ng/L	1.589		95.2		65-145			J
N-MeFOSAA (NMeFOSAA)	1.32	1.6	ng/L	1.589		82.8		50-140			J
N-EtFOSAA (NEtFOSAA)	1.88	1.6	ng/L	1.589		118		70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	13.3	16	ng/L	15.89		83.9		70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	14.3	16	ng/L	15.89		89.9		70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.54	6.4	ng/L	6.355		87.2		70-140			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.60	6.4	ng/L	6.005		93.2		65-145			J
9Cl-PF3ONS (F53B Minor)	5.20	6.4	ng/L	5.929		87.7		70-155			J
11Cl-PF3OUdS (F53B Major)	4.52	6.4	ng/L	5.993		75.4		55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.54	7.9	ng/L	7.944		69.8		65-130			J

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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 B393179 - EPA 1633										
MRL Check (B393179-MRL1)				Prepared: 11/27/24 Analyzed: 12/03/24						
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	33.0	40	ng/L	39.72		83.2	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	29.7	40	ng/L	39.72		74.7	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.49	3.2	ng/L	2.834		87.8	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.00	3.2	ng/L	3.177		94.4	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.75	3.2	ng/L	3.177		86.6	60-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.75	3.2	ng/L	3.177		86.5	50-150			J
Surrogate: 13C4-PFBA	*63.5*		ng/L	79.44		79.9	5-130			
Surrogate: 13C5-PFPeA	*31.5*		ng/L	39.72		79.4	40-130			
Surrogate: 13C5-PFHxA	*15.5*		ng/L	19.86		78.1	40-130			
Surrogate: 13C4-PFHpA	*14.9*		ng/L	19.86		75.0	40-130			
Surrogate: 13C8-PFOA	*14.3*		ng/L	19.86		71.9	40-130			
Surrogate: 13C9-PFNA	*6.79*		ng/L	9.930		68.4	40-130			
Surrogate: 13C6-PFDA	*7.03*		ng/L	9.930		70.8	40-130			
Surrogate: 13C7-PFUnA	*6.71*		ng/L	9.930		67.6	30-130			
Surrogate: 13C2-PFDoA	*5.62*		ng/L	9.930		56.6	10-130			
Surrogate: 13C2-PFTeDA	*4.49*		ng/L	9.930		45.2	10-130			
Surrogate: 13C3-PFBS	*15.1*		ng/L	19.86		76.0	40-135			
Surrogate: 13C3-PFHxS	*14.3*		ng/L	19.86		72.0	40-130			
Surrogate: 13C8-PFOS	*13.2*		ng/L	19.86		66.5	40-130			
Surrogate: 13C2-4:2FTS	*35.8*		ng/L	39.72		90.0	40-200			
Surrogate: 13C2-6:2FTS	*33.8*		ng/L	39.72		85.0	40-200			
Surrogate: 13C2-8:2FTS	*28.7*		ng/L	39.72		72.3	40-300			
Surrogate: 13C8-PFOSA	*11.1*		ng/L	19.86		55.9	40-130			
Surrogate: D3-NMeFOSA	*7.04*		ng/L	19.86		35.4	10-130			
Surrogate: D5-NEtFOSA	*6.92*		ng/L	19.86		34.9	10-130			
Surrogate: D3-NMeFOSAA	*21.9*		ng/L	39.72		55.3	40-170			
Surrogate: D5-NEtFOSAA	*19.3*		ng/L	39.72		48.6	25-135			
Surrogate: D7-NMeFOSE	*93.9*		ng/L	198.6		47.3	10-130			
Surrogate: D9-NEtFOSE	*83.0*		ng/L	198.6		41.8	10-130			
Surrogate: 13C3-HFPO-DA	*64.7*		ng/L	79.44		81.5	40-130			
Batch B393452 - EPA 1633										
Blank (B393452-BLK1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet							

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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 B393452 - EPA 1633										
Blank (B393452-BLK1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	0.98	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	4.9	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	4.9	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*6.27*		µg/kg wet	7.846		79.9	8-130			
Surrogate: 13C5-PFPeA	*3.13*		µg/kg wet	3.923		79.8	35-130			
Surrogate: 13C5-PFHxA	*1.54*		µg/kg wet	1.962		78.7	40-130			
Surrogate: 13C4-PFHpA	*1.51*		µg/kg wet	1.962		76.9	40-130			
Surrogate: 13C8-PFOA	*1.67*		µg/kg wet	1.962		85.3	40-130			
Surrogate: 13C9-PFNA	*0.772*		µg/kg wet	0.9808		78.7	40-130			
Surrogate: 13C6-PFDA	*0.771*		µg/kg wet	0.9808		78.6	40-130			
Surrogate: 13C7-PFUnA	*0.833*		µg/kg wet	0.9808		85.0	40-130			
Surrogate: 13C2-PFDoA	*0.822*		µg/kg wet	0.9808		83.9	40-130			
Surrogate: 13C2-PFTeDA	*0.911*		µg/kg wet	0.9808		92.9	20-130			
Surrogate: 13C3-PFBS	*1.61*		µg/kg wet	1.962		81.9	40-135			
Surrogate: 13C3-PFHxS	*1.69*		µg/kg wet	1.962		85.9	40-130			
Surrogate: 13C8-PFOS	*1.57*		µg/kg wet	1.962		80.0	40-130			
Surrogate: 13C2-4:2FTS	*3.48*		µg/kg wet	3.923		88.7	40-165			
Surrogate: 13C2-6:2FTS	*3.65*		µg/kg wet	3.923		93.1	40-215			
Surrogate: 13C2-8:2FTS	*3.85*		µg/kg wet	3.923		98.1	40-275			

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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 B393452 - EPA 1633										
Blank (B393452-BLK1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Surrogate: 13C8-PFOSA	*1.55*		µg/kg wet	1.962		78.9	40-130			
Surrogate: D3-NMeFOSA	*1.35*		µg/kg wet	1.962		68.6	10-130			
Surrogate: D5-NEtFOSA	*1.31*		µg/kg wet	1.962		66.9	10-130			
Surrogate: D3-NMeFOSAA	*3.38*		µg/kg wet	3.923		86.2	40-135			
Surrogate: D5-NEtFOSAA	*3.49*		µg/kg wet	3.923		88.9	40-150			
Surrogate: D7-NMeFOSE	*16.7*		µg/kg wet	19.62		85.1	20-130			
Surrogate: D9-NEtFOSE	*16.9*		µg/kg wet	19.62		86.4	15-130			
Surrogate: 13C3-HFPO-DA	*6.45*		µg/kg wet	7.846		82.2	40-130			
LCS (B393452-BS1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Perfluorobutanoic acid (PFBA)	7.15	0.78	µg/kg wet	7.770		92.0	70-140			
Perfluoropentanoic acid (PFPeA)	3.64	0.39	µg/kg wet	3.885		93.6	60-150			
Perfluorohexanoic acid (PFHxA)	1.78	0.19	µg/kg wet	1.943		91.7	65-140			
Perfluoroheptanoic acid (PFHpA)	1.90	0.19	µg/kg wet	1.943		97.7	65-145			
Perfluorooctanoic acid (PFOA)	1.78	0.19	µg/kg wet	1.943		91.8	70-150			
Perfluorononanoic acid (PFNA)	1.85	0.19	µg/kg wet	1.943		95.3	70-155			
Perfluorodecanoic acid (PFDA)	1.80	0.19	µg/kg wet	1.943		92.6	70-155			
Perfluoroundecanoic acid (PFUnA)	1.88	0.19	µg/kg wet	1.943		96.7	70-155			
Perfluorododecanoic acid (PFDoA)	1.82	0.19	µg/kg wet	1.943		93.8	70-150			
Perfluorotridecanoic acid (PFTrDA)	1.86	0.19	µg/kg wet	1.943		95.8	65-150			
Perfluorotetradecanoic acid (PFTeDA)	1.92	0.19	µg/kg wet	1.943		98.9	65-150			
Perfluorobutanesulfonic acid (PFBS)	1.66	0.19	µg/kg wet	1.725		96.2	65-145			
Perfluoropentanesulfonic acid (PFPeS)	1.91	0.19	µg/kg wet	1.826		104	55-160			
Perfluorohexanesulfonic acid (PFHxS)	1.63	0.19	µg/kg wet	1.772		92.0	60-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.85	0.19	µg/kg wet	1.849		100	65-155			
Perfluorooctanesulfonic acid (PFOS)	1.73	0.19	µg/kg wet	1.803		96.2	65-160			
Perfluorononanesulfonic acid (PFNS)	1.88	0.19	µg/kg wet	1.865		101	55-140			
Perfluorodecanesulfonic acid (PFDS)	1.93	0.19	µg/kg wet	1.873		103	40-155			
Perfluorododecanesulfonic acid (PFDoS)	1.91	0.19	µg/kg wet	1.880		102	25-160			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.33	0.78	µg/kg wet	7.280		101	60-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.42	0.78	µg/kg wet	7.389		100	55-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.19	0.78	µg/kg wet	7.459		96.4	70-150			
Perfluorooctanesulfonamide (PFOSA)	1.82	0.19	µg/kg wet	1.943		93.6	70-140			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.69	0.19	µg/kg wet	1.943		87.0	70-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.79	0.19	µg/kg wet	1.943		92.1	70-140			
N-MeFOSAA (NMeFOSAA)	1.72	0.19	µg/kg wet	1.943		88.3	65-155			
N-EtFOSAA (NEtFOSAA)	1.81	0.19	µg/kg wet	1.943		93.4	65-165			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	17.6	1.9	µg/kg wet	19.43		90.8	70-140			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	17.8	1.9	µg/kg wet	19.43		91.7	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.59	0.78	µg/kg wet	7.770		97.7	70-145			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.00	0.78	µg/kg wet	7.343		95.3	70-160			
9Cl-PF3ONS (F53B Minor)	7.37	0.78	µg/kg wet	7.249		102	70-150			
11Cl-PF3OUdS (F53B Major)	8.07	0.78	µg/kg wet	7.257		111	45-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	6.48	0.97	µg/kg wet	9.713		66.7	45-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	41.2	4.9	µg/kg wet	48.56		84.7	60-130			

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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 B393452 - EPA 1633										
LCS (B393452-BS1)				Prepared: 12/03/24 Analyzed: 12/04/24						
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	41.3	4.9	µg/kg wet	48.56		85.1	60-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.48	0.39	µg/kg wet	3.465		100	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.77	0.39	µg/kg wet	3.885		97.1	30-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.72	0.39	µg/kg wet	3.885		95.7	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.57	0.39	µg/kg wet	3.885		92.0	60-155			
Surrogate: 13C4-PFBA	*7.88*		µg/kg wet	7.770		101	8-130			
Surrogate: 13C5-PFPeA	*3.86*		µg/kg wet	3.885		99.4	35-130			
Surrogate: 13C5-PFHxA	*2.00*		µg/kg wet	1.943		103	40-130			
Surrogate: 13C4-PFHpA	*1.88*		µg/kg wet	1.943		96.8	40-130			
Surrogate: 13C8-PFOA	*1.98*		µg/kg wet	1.943		102	40-130			
Surrogate: 13C9-PFNA	*0.989*		µg/kg wet	0.9713		102	40-130			
Surrogate: 13C6-PFDA	*1.05*		µg/kg wet	0.9713		109	40-130			
Surrogate: 13C7-PFUnA	*1.03*		µg/kg wet	0.9713		106	40-130			
Surrogate: 13C2-PFDoA	*1.06*		µg/kg wet	0.9713		109	40-130			
Surrogate: 13C2-PFTeDA	*1.06*		µg/kg wet	0.9713		109	20-130			
Surrogate: 13C3-PFBS	*1.86*		µg/kg wet	1.943		95.9	40-135			
Surrogate: 13C3-PFHxS	*1.84*		µg/kg wet	1.943		94.9	40-130			
Surrogate: 13C8-PFOS	*1.89*		µg/kg wet	1.943		97.2	40-130			
Surrogate: 13C2-4:2FTS	*4.00*		µg/kg wet	3.885		103	40-165			
Surrogate: 13C2-6:2FTS	*4.06*		µg/kg wet	3.885		105	40-215			
Surrogate: 13C2-8:2FTS	*4.05*		µg/kg wet	3.885		104	40-275			
Surrogate: 13C8-PFOSA	*1.77*		µg/kg wet	1.943		91.1	40-130			
Surrogate: D3-NMeFOSA	*1.69*		µg/kg wet	1.943		87.2	10-130			
Surrogate: D5-NEtFOSA	*1.73*		µg/kg wet	1.943		89.1	10-130			
Surrogate: D3-NMeFOSAA	*3.77*		µg/kg wet	3.885		97.1	40-135			
Surrogate: D5-NEtFOSAA	*3.66*		µg/kg wet	3.885		94.3	40-150			
Surrogate: D7-NMeFOSE	*19.5*		µg/kg wet	19.43		100	20-130			
Surrogate: D9-NEtFOSE	*20.7*		µg/kg wet	19.43		107	15-130			
Surrogate: 13C3-HFPO-DA	*7.92*		µg/kg wet	7.770		102	40-130			
MRL Check (B393452-MRL1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Perfluorobutanoic acid (PFBA)	0.689	0.78	µg/kg wet	0.7791		88.4	70-140			J
Perfluoropentanoic acid (PFPeA)	0.335	0.39	µg/kg wet	0.3896		86.0	60-150			J
Perfluorohexanoic acid (PFHxA)	0.170	0.19	µg/kg wet	0.1948		87.1	65-140			J
Perfluoroheptanoic acid (PFHpA)	0.182	0.19	µg/kg wet	0.1948		93.4	65-145			J
Perfluorooctanoic acid (PFOA)	0.166	0.19	µg/kg wet	0.1948		85.2	70-150			J
Perfluorononanoic acid (PFNA)	0.165	0.19	µg/kg wet	0.1948		84.7	70-155			J
Perfluorodecanoic acid (PFDA)	0.173	0.19	µg/kg wet	0.1948		88.6	70-155			J
Perfluoroundecanoic acid (PFUnA)	0.164	0.19	µg/kg wet	0.1948		84.0	70-155			J
Perfluorododecanoic acid (PFDoA)	0.161	0.19	µg/kg wet	0.1948		82.9	70-150			J
Perfluorotridecanoic acid (PFTrDA)	0.172	0.19	µg/kg wet	0.1948		88.5	65-150			J
Perfluorotetradecanoic acid (PFTeDA)	0.158	0.19	µg/kg wet	0.1948		81.4	65-150			J
Perfluorobutanesulfonic acid (PFBS)	0.149	0.19	µg/kg wet	0.1730		86.2	65-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.164	0.19	µg/kg wet	0.1831		89.5	55-160			J
Perfluorohexanesulfonic acid (PFHxS)	0.158	0.19	µg/kg wet	0.1776		88.9	60-150			J
Perfluoroheptanesulfonic acid (PFHpS)	0.159	0.19	µg/kg wet	0.1854		86.0	65-155			J
Perfluorooctanesulfonic acid (PFOS)	0.155	0.19	µg/kg wet	0.1808		85.5	65-160			J
Perfluorononanesulfonic acid (PFNS)	0.162	0.19	µg/kg wet	0.1870		86.8	55-140			J
Perfluorodecanesulfonic acid (PFDS)	0.186	0.19	µg/kg wet	0.1878		99.1	40-155			J

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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 B393452 - EPA 1633										
MRL Check (B393452-MRL1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Perfluorododecanesulfonic acid (PFDoS)	0.187	0.19	µg/kg wet	0.1885		98.9	25-160			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.570	0.78	µg/kg wet	0.7300		78.1	60-150			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.749	0.78	µg/kg wet	0.7409		101	55-200			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.601	0.78	µg/kg wet	0.7480		80.3	70-150			J
Perfluorooctanesulfonamide (PFOSA)	0.168	0.19	µg/kg wet	0.1948		86.1	70-140			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.191	0.19	µg/kg wet	0.1948		98.0	70-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.176	0.19	µg/kg wet	0.1948		90.4	70-140			J
N-MeFOSAA (NMeFOSAA)	0.144	0.19	µg/kg wet	0.1948		73.9	65-155			J
N-EtFOSAA (NEtFOSAA)	0.143	0.19	µg/kg wet	0.1948		73.2	65-165			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.69	1.9	µg/kg wet	1.948		86.6	70-140			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.66	1.9	µg/kg wet	1.948		85.0	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.692	0.78	µg/kg wet	0.7791		88.8	70-145			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.669	0.78	µg/kg wet	0.7363		90.9	70-160			J
9Cl-PF3ONS (F53B Minor)	0.689	0.78	µg/kg wet	0.7269		94.9	70-150			J
11Cl-PF3OUdS (F53B Major)	0.748	0.78	µg/kg wet	0.7347		102	45-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	0.652	0.97	µg/kg wet	0.9739		66.9	45-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	4.17	4.9	µg/kg wet	4.869		85.7	60-130			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	3.74	4.9	µg/kg wet	4.869		76.8	60-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.331	0.39	µg/kg wet	0.3475		95.3	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.354	0.39	µg/kg wet	0.3896		91.0	30-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.377	0.39	µg/kg wet	0.3896		96.7	60-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.375	0.39	µg/kg wet	0.3896		96.2	60-155			J
Surrogate: 13C4-PFBA	*7.73*		µg/kg wet	7.791		99.2	8-130			
Surrogate: 13C5-PFPeA	*3.95*		µg/kg wet	3.896		101	35-130			
Surrogate: 13C5-PFHxA	*1.95*		µg/kg wet	1.948		100	40-130			
Surrogate: 13C4-PFHpA	*1.91*		µg/kg wet	1.948		98.0	40-130			
Surrogate: 13C8-PFOA	*2.00*		µg/kg wet	1.948		103	40-130			
Surrogate: 13C9-PFNA	*1.02*		µg/kg wet	0.9739		104	40-130			
Surrogate: 13C6-PFDA	*1.00*		µg/kg wet	0.9739		103	40-130			
Surrogate: 13C7-PFUnA	*1.06*		µg/kg wet	0.9739		109	40-130			
Surrogate: 13C2-PFDoA	*1.11*		µg/kg wet	0.9739		114	40-130			
Surrogate: 13C2-PFTeDA	*1.13*		µg/kg wet	0.9739		116	20-130			
Surrogate: 13C3-PFBS	*1.96*		µg/kg wet	1.948		101	40-135			
Surrogate: 13C3-PFHxS	*1.92*		µg/kg wet	1.948		98.8	40-130			
Surrogate: 13C8-PFOS	*1.99*		µg/kg wet	1.948		102	40-130			
Surrogate: 13C2-4:2FTS	*4.52*		µg/kg wet	3.896		116	40-165			
Surrogate: 13C2-6:2FTS	*3.95*		µg/kg wet	3.896		101	40-215			
Surrogate: 13C2-8:2FTS	*4.57*		µg/kg wet	3.896		117	40-275			
Surrogate: 13C8-PFOSA	*1.85*		µg/kg wet	1.948		95.0	40-130			
Surrogate: D3-NMeFOSA	*1.66*		µg/kg wet	1.948		85.3	10-130			
Surrogate: D5-NEtFOSA	*1.81*		µg/kg wet	1.948		92.8	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393452 - EPA 1633										
MRL Check (B393452-MRL1)				Prepared: 12/03/24 Analyzed: 12/04/24						
Surrogate: D3-NMeFOSAA	*4.01*		µg/kg wet	3.896		103	40-135			
Surrogate: D5-NEtFOSAA	*4.05*		µg/kg wet	3.896		104	40-150			
Surrogate: D7-NMeFOSE	*21.2*		µg/kg wet	19.48		109	20-130			
Surrogate: D9-NEtFOSE	*22.4*		µg/kg wet	19.48		115	15-130			
Surrogate: 13C3-HFPO-DA	*7.94*		µg/kg wet	7.791		102	40-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391935 - SW-846 3546										
Blank (B391935-BLK1)				Prepared: 11/11/24 Analyzed: 11/18/24						
alpha-Chlordane	ND	0.0048	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0048	mg/Kg wet							
gamma-Chlordane	ND	0.0048	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0048	mg/Kg wet							
Aldrin	ND	0.0048	mg/Kg wet							
Aldrin [2C]	ND	0.0048	mg/Kg wet							
alpha-BHC	ND	0.0048	mg/Kg wet							
alpha-BHC [2C]	ND	0.0048	mg/Kg wet							
beta-BHC	ND	0.0048	mg/Kg wet							
beta-BHC [2C]	ND	0.0048	mg/Kg wet							
delta-BHC	ND	0.0048	mg/Kg wet							
delta-BHC [2C]	ND	0.0048	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0019	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0019	mg/Kg wet							
4,4'-DDD	ND	0.0039	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0039	mg/Kg wet							
4,4'-DDE	ND	0.0039	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0039	mg/Kg wet							
4,4'-DDT	ND	0.0039	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0039	mg/Kg wet							
Dieldrin	ND	0.0039	mg/Kg wet							
Dieldrin [2C]	ND	0.0039	mg/Kg wet							
Endosulfan I	ND	0.0048	mg/Kg wet							
Endosulfan I [2C]	ND	0.0048	mg/Kg wet							
Endosulfan II	ND	0.0078	mg/Kg wet							
Endosulfan II [2C]	ND	0.0078	mg/Kg wet							
Endosulfan Sulfate	ND	0.0078	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0078	mg/Kg wet							
Endrin	ND	0.0078	mg/Kg wet							
Endrin [2C]	ND	0.0078	mg/Kg wet							
Endrin Aldehyde	ND	0.0078	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0078	mg/Kg wet							
Endrin Ketone	ND	0.0078	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0078	mg/Kg wet							
Heptachlor	ND	0.0048	mg/Kg wet							
Heptachlor [2C]	ND	0.0048	mg/Kg wet							
Heptachlor Epoxide	ND	0.0048	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0048	mg/Kg wet							
Methoxychlor	ND	0.048	mg/Kg wet							
Methoxychlor [2C]	ND	0.048	mg/Kg wet							
Toxaphene	ND	0.097	mg/Kg wet							
Toxaphene [2C]	ND	0.097	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg wet	0.1938		84.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.158*		mg/Kg wet	0.1938		81.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.140*		mg/Kg wet	0.1938		72.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.1938		76.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391935 - SW-846 3546										
LCS (B391935-BS1)				Prepared: 11/11/24 Analyzed: 11/18/24						
alpha-Chlordane	0.083	0.0049	mg/Kg wet	0.09814		84.5	40-140			
alpha-Chlordane [2C]	0.090	0.0049	mg/Kg wet	0.09814		91.6	40-140			
gamma-Chlordane	0.086	0.0049	mg/Kg wet	0.09814		87.7	40-140			
gamma-Chlordane [2C]	0.090	0.0049	mg/Kg wet	0.09814		91.4	40-140			
Aldrin	0.083	0.0049	mg/Kg wet	0.09814		84.5	40-140			
Aldrin [2C]	0.090	0.0049	mg/Kg wet	0.09814		91.4	40-140			
alpha-BHC	0.086	0.0049	mg/Kg wet	0.09814		87.5	40-140			
alpha-BHC [2C]	0.090	0.0049	mg/Kg wet	0.09814		92.0	40-140			
beta-BHC	0.080	0.0049	mg/Kg wet	0.09814		81.1	40-140			
beta-BHC [2C]	0.086	0.0049	mg/Kg wet	0.09814		87.3	40-140			
delta-BHC	0.069	0.0049	mg/Kg wet	0.09814		70.2	40-140			
delta-BHC [2C]	0.071	0.0049	mg/Kg wet	0.09814		72.8	40-140			
gamma-BHC (Lindane)	0.081	0.0020	mg/Kg wet	0.09814		82.6	40-140			
gamma-BHC (Lindane) [2C]	0.087	0.0020	mg/Kg wet	0.09814		88.7	40-140			
4,4'-DDD	0.088	0.0039	mg/Kg wet	0.09814		89.5	40-140			
4,4'-DDD [2C]	0.093	0.0039	mg/Kg wet	0.09814		95.1	40-140			
4,4'-DDE	0.088	0.0039	mg/Kg wet	0.09814		90.1	40-140			
4,4'-DDE [2C]	0.092	0.0039	mg/Kg wet	0.09814		94.0	40-140			
4,4'-DDT	0.082	0.0039	mg/Kg wet	0.09814		83.6	40-140			
4,4'-DDT [2C]	0.083	0.0039	mg/Kg wet	0.09814		84.6	40-140			
Dieldrin	0.086	0.0039	mg/Kg wet	0.09814		88.0	40-140			
Dieldrin [2C]	0.093	0.0039	mg/Kg wet	0.09814		95.2	40-140			
Endosulfan I	0.083	0.0049	mg/Kg wet	0.09814		84.6	40-140			
Endosulfan I [2C]	0.091	0.0049	mg/Kg wet	0.09814		92.4	40-140			
Endosulfan II	0.084	0.0079	mg/Kg wet	0.09814		85.3	40-140			
Endosulfan II [2C]	0.091	0.0079	mg/Kg wet	0.09814		92.8	40-140			
Endosulfan Sulfate	0.072	0.0079	mg/Kg wet	0.09814		73.1	40-140			
Endosulfan Sulfate [2C]	0.080	0.0079	mg/Kg wet	0.09814		81.7	40-140			
Endrin	0.091	0.0079	mg/Kg wet	0.09814		92.7	40-140			
Endrin [2C]	0.093	0.0079	mg/Kg wet	0.09814		94.7	40-140			
Endrin Aldehyde	0.074	0.0079	mg/Kg wet	0.09814		75.8	40-140			
Endrin Aldehyde [2C]	0.082	0.0079	mg/Kg wet	0.09814		83.6	40-140			
Endrin Ketone	0.082	0.0079	mg/Kg wet	0.09814		84.0	40-140			
Endrin Ketone [2C]	0.081	0.0079	mg/Kg wet	0.09814		82.5	40-140			
Heptachlor	0.087	0.0049	mg/Kg wet	0.09814		88.8	40-140			
Heptachlor [2C]	0.092	0.0049	mg/Kg wet	0.09814		93.6	40-140			
Heptachlor Epoxide	0.085	0.0049	mg/Kg wet	0.09814		86.9	40-140			
Heptachlor Epoxide [2C]	0.090	0.0049	mg/Kg wet	0.09814		91.6	40-140			
Methoxychlor	0.081	0.049	mg/Kg wet	0.09814		82.5	40-140			
Methoxychlor [2C]	0.085	0.049	mg/Kg wet	0.09814		86.3	40-140			
Surrogate: Decachlorobiphenyl	*0.186*		mg/Kg wet	0.1963		94.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.1963		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.1963		82.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.1963		85.0	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391935 - SW-846 3546										
LCS Dup (B391935-BSD1)				Prepared: 11/11/24 Analyzed: 11/18/24						
alpha-Chlordane	0.075	0.0049	mg/Kg wet	0.09823		76.6	40-140	9.70	30	
alpha-Chlordane [2C]	0.082	0.0049	mg/Kg wet	0.09823		83.7	40-140	9.02	30	
gamma-Chlordane	0.078	0.0049	mg/Kg wet	0.09823		78.9	40-140	10.4	30	
gamma-Chlordane [2C]	0.082	0.0049	mg/Kg wet	0.09823		83.3	40-140	9.20	30	
Aldrin	0.075	0.0049	mg/Kg wet	0.09823		76.5	40-140	9.92	30	
Aldrin [2C]	0.082	0.0049	mg/Kg wet	0.09823		83.0	40-140	9.55	30	
alpha-BHC	0.079	0.0049	mg/Kg wet	0.09823		80.1	40-140	8.78	30	
alpha-BHC [2C]	0.082	0.0049	mg/Kg wet	0.09823		83.8	40-140	9.28	30	
beta-BHC	0.073	0.0049	mg/Kg wet	0.09823		74.4	40-140	8.51	30	
beta-BHC [2C]	0.078	0.0049	mg/Kg wet	0.09823		79.7	40-140	9.08	30	
delta-BHC	0.063	0.0049	mg/Kg wet	0.09823		64.1	40-140	9.01	30	
delta-BHC [2C]	0.065	0.0049	mg/Kg wet	0.09823		66.5	40-140	8.92	30	
gamma-BHC (Lindane)	0.074	0.0020	mg/Kg wet	0.09823		75.4	40-140	9.00	30	
gamma-BHC (Lindane) [2C]	0.079	0.0020	mg/Kg wet	0.09823		80.8	40-140	9.17	30	
4,4'-DDD	0.080	0.0039	mg/Kg wet	0.09823		81.0	40-140	9.81	30	
4,4'-DDD [2C]	0.085	0.0039	mg/Kg wet	0.09823		86.2	40-140	9.69	30	
4,4'-DDE	0.080	0.0039	mg/Kg wet	0.09823		81.5	40-140	9.88	30	
4,4'-DDE [2C]	0.084	0.0039	mg/Kg wet	0.09823		85.4	40-140	9.56	30	
4,4'-DDT	0.073	0.0039	mg/Kg wet	0.09823		74.6	40-140	11.3	30	
4,4'-DDT [2C]	0.075	0.0039	mg/Kg wet	0.09823		76.2	40-140	10.3	30	
Dieldrin	0.078	0.0039	mg/Kg wet	0.09823		79.7	40-140	9.78	30	
Dieldrin [2C]	0.084	0.0039	mg/Kg wet	0.09823		86.0	40-140	10.0	30	
Endosulfan I	0.075	0.0049	mg/Kg wet	0.09823		76.7	40-140	9.64	30	
Endosulfan I [2C]	0.083	0.0049	mg/Kg wet	0.09823		84.4	40-140	8.89	30	
Endosulfan II	0.076	0.0079	mg/Kg wet	0.09823		77.1	40-140	10.1	30	
Endosulfan II [2C]	0.082	0.0079	mg/Kg wet	0.09823		83.9	40-140	10.0	30	
Endosulfan Sulfate	0.065	0.0079	mg/Kg wet	0.09823		65.7	40-140	10.6	30	
Endosulfan Sulfate [2C]	0.072	0.0079	mg/Kg wet	0.09823		73.2	40-140	10.8	30	
Endrin	0.082	0.0079	mg/Kg wet	0.09823		83.9	40-140	9.78	30	
Endrin [2C]	0.085	0.0079	mg/Kg wet	0.09823		86.2	40-140	9.30	30	
Endrin Aldehyde	0.065	0.0079	mg/Kg wet	0.09823		65.7	40-140	14.1	30	
Endrin Aldehyde [2C]	0.077	0.0079	mg/Kg wet	0.09823		78.2	40-140	6.67	30	
Endrin Ketone	0.074	0.0079	mg/Kg wet	0.09823		75.8	40-140	10.2	30	
Endrin Ketone [2C]	0.073	0.0079	mg/Kg wet	0.09823		74.8	40-140	9.72	30	
Heptachlor	0.079	0.0049	mg/Kg wet	0.09823		80.1	40-140	10.2	30	
Heptachlor [2C]	0.083	0.0049	mg/Kg wet	0.09823		84.7	40-140	9.86	30	
Heptachlor Epoxide	0.077	0.0049	mg/Kg wet	0.09823		78.7	40-140	9.82	30	
Heptachlor Epoxide [2C]	0.082	0.0049	mg/Kg wet	0.09823		83.4	40-140	9.34	30	
Methoxychlor	0.072	0.049	mg/Kg wet	0.09823		73.5	40-140	11.4	30	
Methoxychlor [2C]	0.076	0.049	mg/Kg wet	0.09823		77.0	40-140	11.3	30	
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.1965		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.157*		mg/Kg wet	0.1965		79.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.144*		mg/Kg wet	0.1965		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.1965		75.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391935 - SW-846 3546										
Matrix Spike (B391935-MS1)	**Source: 24K0186-07**			Prepared: 11/11/24 Analyzed: 11/26/24						
Aldrin	0.089	0.052	mg/Kg dry	0.1041	ND	85.5	30-150			
Aldrin [2C]	0.088	0.052	mg/Kg dry	0.1041	ND	84.1	30-150			
alpha-BHC	0.080	0.052	mg/Kg dry	0.1041	ND	76.4	30-150			
alpha-BHC [2C]	0.081	0.052	mg/Kg dry	0.1041	ND	77.7	30-150			
beta-BHC	0.087	0.052	mg/Kg dry	0.1041	ND	83.2	30-150			
beta-BHC [2C]	0.078	0.052	mg/Kg dry	0.1041	ND	75.2	30-150			
delta-BHC	0.068	0.052	mg/Kg dry	0.1041	ND	65.0	30-150			
delta-BHC [2C]	0.066	0.052	mg/Kg dry	0.1041	ND	63.9	30-150			
gamma-BHC (Lindane)	0.081	0.021	mg/Kg dry	0.1041	ND	78.2	30-150			
gamma-BHC (Lindane) [2C]	0.080	0.021	mg/Kg dry	0.1041	ND	76.8	30-150			
4,4'-DDD	0.098	0.042	mg/Kg dry	0.1041	0.0019	92.6	30-150			
4,4'-DDD [2C]	0.096	0.042	mg/Kg dry	0.1041	0.0018	90.6	30-150			
4,4'-DDE	0.13	0.042	mg/Kg dry	0.1041	0.024	99.5	30-150			
4,4'-DDE [2C]	0.12	0.042	mg/Kg dry	0.1041	0.021	92.3	30-150			
4,4'-DDT	0.16	0.042	mg/Kg dry	0.1041	0.051	102	30-150			
4,4'-DDT [2C]	0.13	0.042	mg/Kg dry	0.1041	0.047	82.5	30-150			
Dieldrin	0.11	0.042	mg/Kg dry	0.1041	0.018	88.2	30-150			
Dieldrin [2C]	0.11	0.042	mg/Kg dry	0.1041	0.018	89.1	30-150			
Endosulfan I	0.095	0.052	mg/Kg dry	0.1041	ND	90.9	30-150			
Endosulfan I [2C]	0.094	0.052	mg/Kg dry	0.1041	ND	90.2	30-150			
Endosulfan II	0.094	0.083	mg/Kg dry	0.1041	ND	90.7	30-150			
Endosulfan II [2C]	0.092	0.083	mg/Kg dry	0.1041	ND	88.3	30-150			
Endosulfan Sulfate	0.089	0.083	mg/Kg dry	0.1041	ND	85.9	30-150			
Endosulfan Sulfate [2C]	0.086	0.083	mg/Kg dry	0.1041	ND	82.7	30-150			
Endrin	0.098	0.083	mg/Kg dry	0.1041	ND	94.6	30-150			
Endrin [2C]	0.092	0.083	mg/Kg dry	0.1041	ND	88.7	30-150			
Endrin Aldehyde	0.056	0.083	mg/Kg dry	0.1041	ND	53.9	30-150			J
Endrin Aldehyde [2C]	0.065	0.083	mg/Kg dry	0.1041	ND	62.0	30-150			R-06, J
Endrin Ketone	0.088	0.083	mg/Kg dry	0.1041	ND	84.9	30-150			
Endrin Ketone [2C]	0.086	0.083	mg/Kg dry	0.1041	ND	82.4	30-150			
Heptachlor	0.094	0.052	mg/Kg dry	0.1041	ND	90.6	30-150			
Heptachlor [2C]	0.094	0.052	mg/Kg dry	0.1041	ND	90.1	30-150			
Heptachlor Epoxide	0.10	0.052	mg/Kg dry	0.1041	0.0051	91.5	30-150			
Heptachlor Epoxide [2C]	0.096	0.052	mg/Kg dry	0.1041	0.0045	88.3	30-150			
Methoxychlor	0.096	0.52	mg/Kg dry	0.1041	ND	92.2	30-150			J
Methoxychlor [2C]	0.095	0.52	mg/Kg dry	0.1041	ND	91.2	30-150			J
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg dry	0.2082		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg dry	0.2082		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg dry	0.2082		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.158*		mg/Kg dry	0.2082		76.1	30-150			
Matrix Spike Dup (B391935-MSD1)	**Source: 24K0186-07**			Prepared: 11/11/24 Analyzed: 11/26/24						
Aldrin	0.072	0.052	mg/Kg dry	0.1040	ND	68.7	30-150	21.8	30	
Aldrin [2C]	0.071	0.052	mg/Kg dry	0.1040	ND	67.8	30-150	21.5	30	
alpha-BHC	0.068	0.052	mg/Kg dry	0.1040	ND	65.0	30-150	16.3	30	
alpha-BHC [2C]	0.065	0.052	mg/Kg dry	0.1040	ND	62.6	30-150	21.6	30	
beta-BHC	0.067	0.052	mg/Kg dry	0.1040	ND	64.9	30-150	24.8	30	
beta-BHC [2C]	0.061	0.052	mg/Kg dry	0.1040	ND	58.6	30-150	24.8	30	
delta-BHC	0.052	0.052	mg/Kg dry	0.1040	ND	49.8	30-150	26.5	30	J
delta-BHC [2C]	0.052	0.052	mg/Kg dry	0.1040	ND	49.6	30-150	25.3	30	J
gamma-BHC (Lindane)	0.066	0.021	mg/Kg dry	0.1040	ND	63.8	30-150	20.3	30	
gamma-BHC (Lindane) [2C]	0.065	0.021	mg/Kg dry	0.1040	ND	62.5	30-150	20.6	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B391935 - SW-846 3546											
Matrix Spike Dup (B391935-MSD1)	**Source: 24K0186-07**			Prepared: 11/11/24 Analyzed: 11/26/24							
4,4'-DDD	0.076	0.042	mg/Kg dry	0.1040	0.0019	71.4	30-150	25.4		30	
4,4'-DDD [2C]	0.074	0.042	mg/Kg dry	0.1040	0.0018	69.7	30-150	25.6		30	
4,4'-DDE	0.10	0.042	mg/Kg dry	0.1040	0.024	72.8	30-150	24.5		30	
4,4'-DDE [2C]	0.094	0.042	mg/Kg dry	0.1040	0.021	70.5	30-150	21.5		30	
4,4'-DDT	0.12	0.042	mg/Kg dry	0.1040	0.051	69.6	30-150	24.4		30	
4,4'-DDT [2C]	0.10	0.042	mg/Kg dry	0.1040	0.047	55.1	30-150	24.2		30	
Dieldrin	0.087	0.042	mg/Kg dry	0.1040	0.018	66.5	30-150	23.1		30	
Dieldrin [2C]	0.087	0.042	mg/Kg dry	0.1040	0.018	66.5	30-150	24.0		30	
Endosulfan I	0.076	0.052	mg/Kg dry	0.1040	ND	72.8	30-150	22.2		30	
Endosulfan I [2C]	0.075	0.052	mg/Kg dry	0.1040	ND	72.2	30-150	22.2		30	
Endosulfan II	0.074	0.083	mg/Kg dry	0.1040	ND	71.5	30-150	23.7		30	J
Endosulfan II [2C]	0.073	0.083	mg/Kg dry	0.1040	ND	69.9	30-150	23.3		30	J
Endosulfan Sulfate	0.072	0.083	mg/Kg dry	0.1040	ND	69.4	30-150	21.4		30	J
Endosulfan Sulfate [2C]	0.069	0.083	mg/Kg dry	0.1040	ND	66.8	30-150	21.4		30	J
Endrin	0.077	0.083	mg/Kg dry	0.1040	ND	74.3	30-150	24.1		30	J
Endrin [2C]	0.072	0.083	mg/Kg dry	0.1040	ND	69.2	30-150	24.8		30	J
Endrin Aldehyde	0.042	0.083	mg/Kg dry	0.1040	ND	40.0	30-150	29.8		30	J
Endrin Aldehyde [2C]	0.047	0.083	mg/Kg dry	0.1040	ND	45.2	30-150	**31.3**	*	30	R-06, J
Endrin Ketone	0.072	0.083	mg/Kg dry	0.1040	ND	68.8	30-150	21.0		30	J
Endrin Ketone [2C]	0.068	0.083	mg/Kg dry	0.1040	ND	65.1	30-150	23.6		30	J
Heptachlor	0.077	0.052	mg/Kg dry	0.1040	ND	73.6	30-150	20.9		30	
Heptachlor [2C]	0.075	0.052	mg/Kg dry	0.1040	ND	72.4	30-150	21.9		30	
Heptachlor Epoxide	0.080	0.052	mg/Kg dry	0.1040	0.0051	72.5	30-150	22.0		30	
Heptachlor Epoxide [2C]	0.077	0.052	mg/Kg dry	0.1040	0.0045	70.0	30-150	22.0		30	
Methoxychlor	0.077	0.52	mg/Kg dry	0.1040	ND	74.3	30-150	21.6		30	J
Methoxychlor [2C]	0.077	0.52	mg/Kg dry	0.1040	ND	73.7	30-150	21.3		30	J
Surrogate: Decachlorobiphenyl	*0.146*		mg/Kg dry	0.2080		70.1	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.144*		mg/Kg dry	0.2080		69.2	30-150				
Surrogate: Tetrachloro-m-xylene	*0.135*		mg/Kg dry	0.2080		64.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.122*		mg/Kg dry	0.2080		58.8	30-150				

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391689 - SW-846 3546										
Blank (B391689-BLK1)				Prepared: 11/07/24 Analyzed: 11/17/24						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.1988		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.1988		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.1988		75.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.1988		90.1	30-150			
LCS (B391689-BS1)				Prepared: 11/07/24 Analyzed: 11/17/24						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.1984		73.7	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.1984		70.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.1984		83.0	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.1984		85.9	40-140			
Surrogate: Decachlorobiphenyl	*0.187*		mg/Kg wet	0.1984		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg wet	0.1984		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.1984		81.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.169*		mg/Kg wet	0.1984		85.0	30-150			
LCS Dup (B391689-BSD1)				Prepared: 11/07/24 Analyzed: 11/17/24						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.1978		74.5	40-140	1.12	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.1978		79.8	40-140	11.9	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.1978		81.9	40-140	1.34	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.1978		94.7	40-140	9.81	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.1978		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.1978		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.1978		79.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.1978		94.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391689 - SW-846 3546										
Matrix Spike (B391689-MS1)	**Source: 24K0186-07**			Prepared: 11/07/24 Analyzed: 11/17/24						
Aroclor-1016	0.14	0.085	mg/Kg dry	0.2119	ND	64.0	40-140			
Aroclor-1016 [2C]	0.20	0.085	mg/Kg dry	0.2119	ND	93.1	40-140			
Aroclor-1260	0.18	0.085	mg/Kg dry	0.2119	ND	85.4	40-140			
Aroclor-1260 [2C]	0.20	0.085	mg/Kg dry	0.2119	ND	92.9	40-140			
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg dry	0.2119		73.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.157*		mg/Kg dry	0.2119		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.2119		70.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg dry	0.2119		81.1	30-150			
Matrix Spike Dup (B391689-MSD1)	**Source: 24K0186-07**			Prepared: 11/07/24 Analyzed: 11/17/24						
Aroclor-1016	0.14	0.085	mg/Kg dry	0.2124	ND	65.0	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.085	mg/Kg dry	0.2124	ND	92.7	40-140	0.407	30	
Aroclor-1260	0.18	0.085	mg/Kg dry	0.2124	ND	83.9	40-140	1.80	30	
Aroclor-1260 [2C]	0.19	0.085	mg/Kg dry	0.2124	ND	90.5	40-140	2.70	30	
Surrogate: Decachlorobiphenyl	*0.159*		mg/Kg dry	0.2124		75.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.158*		mg/Kg dry	0.2124		74.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.2124		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg dry	0.2124		81.6	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391581 - SW-846 3050B											
Blank (B391581-BLK1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	ND	16	mg/Kg wet								
Antimony	ND	1.6	mg/Kg wet								
Arsenic	ND	3.3	mg/Kg wet								
Barium	ND	1.6	mg/Kg wet								
Beryllium	ND	0.16	mg/Kg wet								
Cadmium	ND	0.33	mg/Kg wet								
Calcium	ND	16	mg/Kg wet								
Chromium	ND	0.65	mg/Kg wet								
Cobalt	ND	1.6	mg/Kg wet								
Copper	ND	1.3	mg/Kg wet								
Iron	ND	16	mg/Kg wet								
Lead	ND	0.49	mg/Kg wet								
Magnesium	ND	16	mg/Kg wet								
Manganese	ND	0.33	mg/Kg wet								
Selenium	ND	3.3	mg/Kg wet								
Sodium	ND	160	mg/Kg wet								
Thallium	ND	1.6	mg/Kg wet								
Vanadium	ND	0.65	mg/Kg wet								
Zinc	ND	0.65	mg/Kg wet								
Blank (B391581-BLK2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Nickel	ND	0.65	mg/Kg wet								
Potassium	ND	160	mg/Kg wet								
Silver	ND	0.33	mg/Kg wet								
LCS (B391581-BS1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5290	49	mg/Kg wet	5940		89.1		46.1-153.9			
Antimony	104	4.9	mg/Kg wet	121.0		86.2		2.1-200.8			
Arsenic	244	9.7	mg/Kg wet	242.0		101		81.8-118.6			
Barium	348	4.9	mg/Kg wet	295.0		118		81.7-118.3			
Beryllium	174	0.49	mg/Kg wet	160.0		109		82.5-117.5			
Cadmium	91.7	0.97	mg/Kg wet	84.30		109		82.2-117.8			
Calcium	5550	49	mg/Kg wet	5270		105		82.5-117.5			
Chromium	248	1.9	mg/Kg wet	213.0		117		81.2-119.2			
Cobalt	143	4.9	mg/Kg wet	137.0		105		83.2-117.5			
Copper	234	3.9	mg/Kg wet	195.0		**120**	*	83.1-116.9			L-07
Iron	6170	49	mg/Kg wet	6650		92.7		58.6-141.5			
Lead	187	1.5	mg/Kg wet	194.0		96.3		82-118.6			
Magnesium	1750	49	mg/Kg wet	1860		94.1		75.3-124.2			
Manganese	271	0.97	mg/Kg wet	264.0		103		80.7-118.9			L-07
Selenium	279	9.7	mg/Kg wet	272.0		103		80.1-119.5			
Sodium	420	490	mg/Kg wet	406.0		103		74.9-124.9			J
Thallium	117	4.9	mg/Kg wet	108.0		108		80-119.4			
Vanadium	193	1.9	mg/Kg wet	169.0		114		78.1-122.5			
Zinc	236	1.9	mg/Kg wet	236.0		100		80.1-120.3			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391581 - SW-846 3050B											
LCS (B391581-BS2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Nickel	299	1.9	mg/Kg wet	298.0		100		82.2-117.8			
Potassium	2010	490	mg/Kg wet	2010		100		70.6-129.4			
Silver	81.7	0.97	mg/Kg wet	76.70		106		79.5-120.5			
LCS Dup (B391581-BSD1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5230	48	mg/Kg wet	5940		88.0		46.1-153.9	1.27	30	
Antimony	101	4.8	mg/Kg wet	121.0		83.2		2.1-200.8	3.53	30	
Arsenic	231	9.7	mg/Kg wet	242.0		95.5		81.8-118.6	5.40	30	
Barium	349	4.8	mg/Kg wet	295.0		118		81.7-118.3	0.411	20	
Beryllium	166	0.48	mg/Kg wet	160.0		104		82.5-117.5	4.53	30	
Cadmium	85.8	0.97	mg/Kg wet	84.30		102		82.2-117.8	6.61	20	
Calcium	5420	48	mg/Kg wet	5270		103		82.5-117.5	2.47	30	
Chromium	230	1.9	mg/Kg wet	213.0		108		81.2-119.2	7.53	30	
Cobalt	138	4.8	mg/Kg wet	137.0		101		83.2-117.5	3.36	20	
Copper	223	3.9	mg/Kg wet	195.0		114		83.1-116.9	4.78	30	L-07
Iron	6200	48	mg/Kg wet	6650		93.3		58.6-141.5	0.571	30	
Lead	189	1.4	mg/Kg wet	194.0		97.5		82-118.6	1.30	30	
Magnesium	1730	48	mg/Kg wet	1860		93.1		75.3-124.2	1.06	30	
Manganese	318	0.97	mg/Kg wet	264.0		**120**	*	80.7-118.9	15.8	30	L-07
Selenium	263	9.7	mg/Kg wet	272.0		96.6		80.1-119.5	6.00	30	
Sodium	412	480	mg/Kg wet	406.0		102		74.9-124.9	1.88	30	J
Thallium	109	4.8	mg/Kg wet	108.0		101		80-119.4	6.94	30	
Vanadium	185	1.9	mg/Kg wet	169.0		109		78.1-122.5	4.18	30	
Zinc	235	1.9	mg/Kg wet	236.0		99.4		80.1-120.3	0.683	30	
LCS Dup (B391581-BSD2)				Prepared: 11/06/24 Analyzed: 11/08/24							
Nickel	318	1.9	mg/Kg wet	298.0		107		82.2-117.8	6.16	30	
Potassium	1960	480	mg/Kg wet	2010		97.6		70.6-129.4	2.49	30	
Silver	76.8	0.97	mg/Kg wet	76.70		100		79.5-120.5	6.13	30	
Matrix Spike (B391581-MS1)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	7590	17	mg/Kg dry	17.05	6540	**6210**	*	75-125			MS-19
Antimony	5.13	1.7	mg/Kg dry	17.05	ND	**30.1**	*	75-125			MS-07A
Arsenic	24.5	3.4	mg/Kg dry	17.05	7.33	101		75-125			
Barium	74.0	1.7	mg/Kg dry	17.05	49.5	**144**	*	75-125			MS-22
Beryllium	16.8	0.17	mg/Kg dry	17.05	0.349	96.3		75-125			
Cadmium	17.8	0.34	mg/Kg dry	17.05	0.630	101		75-125			
Chromium	30.8	0.68	mg/Kg dry	17.05	14.4	96.7		75-125			
Cobalt	19.4	1.7	mg/Kg dry	17.05	3.27	94.7		75-125			
Copper	78.1	1.4	mg/Kg dry	34.09	25.4	**155**	*	75-125			MS-22
Iron	11200	17	mg/Kg dry	136.4	9520	**1240**	*	75-125			MS-19
Lead	38.8	0.51	mg/Kg dry	17.05	21.5	102		75-125			
Manganese	206	0.34	mg/Kg dry	17.05	180	**154**	*	75-125			MS-19
Nickel	25.2	0.68	mg/Kg dry	17.05	7.66	103		75-125			
Selenium	17.4	3.4	mg/Kg dry	17.05	ND	102		75-125			
Silver	17.8	0.34	mg/Kg dry	17.05	ND	104		75-125			
Sodium	237	170	mg/Kg dry	136.4	91.8	106		75-125			
Thallium	20.4	1.7	mg/Kg dry	17.05	ND	120		75-125			
Vanadium	32.8	0.68	mg/Kg dry	17.05	14.1	110		75-125			
Zinc	114	0.68	mg/Kg dry	34.09	76.1	110		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391581 - SW-846 3050B												
Matrix Spike (B391581-MS2)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/11/24								
Potassium	776	170	mg/Kg dry	136.4	595	**132**	*	75-125				MS-19
Matrix Spike (B391581-MS3)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/11/24								
Calcium	17100	170	mg/Kg dry	136.4	23300	**-4510**	*	75-125				MS-19
Magnesium	5670	170	mg/Kg dry	136.4	9730	**-2970**	*	75-125				MS-19
Matrix Spike Dup (B391581-MSD1)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/08/24								
Aluminum	7610	17	mg/Kg dry	17.30	6540	**6190**	*	75-125	0.173		35	MS-19
Antimony	5.10	1.7	mg/Kg dry	17.30	ND	**29.5**	*	75-125	0.671		35	MS-07A
Arsenic	23.8	3.5	mg/Kg dry	17.30	7.33	95.4		75-125	2.63		35	
Barium	65.4	1.7	mg/Kg dry	17.30	49.5	91.6		75-125	12.4		35	
Beryllium	16.5	0.17	mg/Kg dry	17.30	0.349	93.1		75-125	1.84		35	
Cadmium	17.6	0.35	mg/Kg dry	17.30	0.630	98.2		75-125	0.818		35	
Chromium	31.3	0.69	mg/Kg dry	17.30	14.4	97.6		75-125	1.32		35	
Cobalt	19.0	1.7	mg/Kg dry	17.30	3.27	90.8		75-125	2.26		35	
Copper	64.8	1.4	mg/Kg dry	34.60	25.4	114		75-125	18.6		35	MS-22
Iron	10400	17	mg/Kg dry	138.4	9520	**639**	*	75-125	7.45		35	MS-19
Lead	39.5	0.52	mg/Kg dry	17.30	21.5	104		75-125	1.80		35	
Manganese	230	0.35	mg/Kg dry	17.30	180	**287**	*	75-125	10.7		35	MS-19
Nickel	23.6	0.69	mg/Kg dry	17.30	7.66	92.4		75-125	6.58		35	
Selenium	17.0	3.5	mg/Kg dry	17.30	ND	98.5		75-125	2.33		35	
Silver	17.6	0.35	mg/Kg dry	17.30	ND	102		75-125	0.844		35	
Sodium	243	170	mg/Kg dry	138.4	91.8	109		75-125	2.57		35	
Thallium	20.5	1.7	mg/Kg dry	17.30	ND	118		75-125	0.187		35	
Vanadium	33.4	0.69	mg/Kg dry	17.30	14.1	112		75-125	1.79		35	
Zinc	112	0.69	mg/Kg dry	34.60	76.1	105		75-125	0.957		35	
Matrix Spike Dup (B391581-MSD2)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/11/24								
Potassium	782	170	mg/Kg dry	138.4	595	**135**	*	75-125	0.823		35	MS-19
Matrix Spike Dup (B391581-MSD3)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/11/24								
Calcium	25900	170	mg/Kg dry	138.4	23300	**1880**	*	75-125	**40.7**	*	35	MS-19
Magnesium	10700	170	mg/Kg dry	138.4	9730	**704**	*	75-125	**61.5**	*	35	MS-19
Post Spike (B391581-PS1)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/08/24								
Aluminum	195		mg/L	2.000	193	87.2		75-125				
Antimony	1.95		mg/L	2.000	-0.00207	97.7		75-125				
Arsenic	2.05		mg/L	2.000	0.217	91.6		75-125				
Barium	3.35		mg/L	2.000	1.46	94.3		75-125				
Beryllium	1.92		mg/L	2.000	0.0103	95.6		75-125				
Cadmium	1.94		mg/L	2.000	0.0186	96.3		75-125				
Chromium	2.28		mg/L	2.000	0.424	92.8		75-125				
Cobalt	1.84		mg/L	2.000	0.0965	86.9		75-125				
Copper	5.04		mg/L	4.000	0.750	107		75-125				
Iron	294		mg/L	16.00	281	81.6		75-125				
Lead	2.31		mg/L	2.000	0.636	83.5		75-125				
Manganese	7.04		mg/L	2.000	5.32	86.1		75-125				
Nickel	1.98		mg/L	2.000	0.226	87.8		75-125				
Selenium	1.89		mg/L	2.000	0.00	94.5		75-125				
Silver	2.04		mg/L	2.000	0.00144	102		75-125				
Sodium	19.4		mg/L	16.00	2.71	104		75-125				
Thallium	2.08		mg/L	2.000	0.00	104		75-125				
Vanadium	2.38		mg/L	2.000	0.416	98.1		75-125				
Zinc	5.52		mg/L	4.000	2.25	81.7		75-125				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391581 - SW-846 3050B										
Dilution Check (B391581-SRL1)	**Source: 24K0186-07**			Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	6570	85	mg/Kg dry		6540			0.472	20	
Antimony	ND	8.5	mg/Kg dry		ND				20	
Arsenic	7.95	17	mg/Kg dry		7.33			8.04	20	J
Barium	49.8	8.5	mg/Kg dry		49.5			0.548	20	
Beryllium	0.389	0.85	mg/Kg dry		0.349			10.8	20	J
Cadmium	ND	1.7	mg/Kg dry		ND				20	
Chromium	15.1	3.4	mg/Kg dry		14.4			5.14	20	
Cobalt	3.59	8.5	mg/Kg dry		3.27			9.48	20	J
Copper	25.4	6.8	mg/Kg dry		25.4			0.286	20	
Iron	10500	85	mg/Kg dry		9520			10.0	20	
Lead	25.0	2.5	mg/Kg dry		21.5			15.1	20	
Manganese	193	1.7	mg/Kg dry		180			6.72	20	
Nickel	8.65	3.4	mg/Kg dry		7.66			12.1	20	
Selenium	ND	17	mg/Kg dry		ND				20	
Silver	ND	1.7	mg/Kg dry		ND				20	
Sodium	ND	850	mg/Kg dry		ND				20	
Thallium	3.20	8.5	mg/Kg dry		ND				20	J
Vanadium	14.8	3.4	mg/Kg dry		14.1			4.82	20	
Zinc	87.0	3.4	mg/Kg dry		76.1			13.3	20	
Batch B391602 - SW-846 3005A										
Blank (B391602-BLK1)				Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Sodium	ND	2.0	mg/L							
Blank (B391602-BLK2)				Prepared: 11/06/24 Analyzed: 11/09/24						
Arsenic	ND	0.010	mg/L							
Cadmium	ND	0.0040	mg/L							
Lead	ND	0.010	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A										
LCS (B391602-BS1)				Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	0.528	0.050	mg/L	0.5000		106	80-120			
Antimony	0.534	0.050	mg/L	0.5000		107	80-120			
Barium	0.511	0.050	mg/L	0.5000		102	80-120			
Beryllium	0.552	0.0040	mg/L	0.5000		110	80-120			
Calcium	4.27	0.50	mg/L	4.000		107	80-120			
Chromium	0.534	0.010	mg/L	0.5000		107	80-120			
Cobalt	0.541	0.010	mg/L	0.5000		108	80-120			
Copper	1.07	0.010	mg/L	1.000		107	80-120			
Iron	4.30	0.050	mg/L	4.000		107	80-120			
Magnesium	4.10	0.050	mg/L	4.000		103	80-120			
Manganese	0.530	0.010	mg/L	0.5000		106	80-120			
Nickel	0.525	0.010	mg/L	0.5000		105	80-120			
Potassium	4.18	2.0	mg/L	4.000		105	80-120			
Selenium	0.527	0.050	mg/L	0.5000		105	80-120			
Sodium	4.17	2.0	mg/L	4.000		104	80-120			
LCS (B391602-BS2)				Prepared: 11/06/24 Analyzed: 11/09/24						
Arsenic	0.515	0.010	mg/L	0.5000		103	80-120			
Cadmium	0.552	0.0040	mg/L	0.5000		110	80-120			
Lead	0.551	0.010	mg/L	0.5000		110	80-120			
Silver	0.579	0.010	mg/L	0.5000		116	80-120			
Thallium	0.522	0.050	mg/L	0.5000		104	80-120			
Vanadium	0.543	0.010	mg/L	0.5000		109	80-120			
Zinc	1.12	0.010	mg/L	1.000		112	80-120			
LCS Dup (B391602-BSD1)				Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	0.511	0.050	mg/L	0.5000		102	80-120	3.34	30	
Antimony	0.525	0.050	mg/L	0.5000		105	80-120	1.72	20	
Barium	0.504	0.050	mg/L	0.5000		101	80-120	1.28	20	
Beryllium	0.541	0.0040	mg/L	0.5000		108	80-120	1.96	20	
Calcium	4.15	0.50	mg/L	4.000		104	80-120	2.85	20	
Chromium	0.530	0.010	mg/L	0.5000		106	80-120	0.861	20	
Cobalt	0.537	0.010	mg/L	0.5000		107	80-120	0.703	20	
Copper	1.05	0.010	mg/L	1.000		105	80-120	1.58	20	
Iron	4.17	0.050	mg/L	4.000		104	80-120	2.90	20	
Magnesium	4.05	0.050	mg/L	4.000		101	80-120	1.37	20	
Manganese	0.514	0.010	mg/L	0.5000		103	80-120	2.92	20	
Nickel	0.522	0.010	mg/L	0.5000		104	80-120	0.516	30	
Potassium	4.11	2.0	mg/L	4.000		103	80-120	1.79	20	
Selenium	0.519	0.050	mg/L	0.5000		104	80-120	1.54	20	
Sodium	4.08	2.0	mg/L	4.000		102	80-120	2.17	20	
LCS Dup (B391602-BSD2)				Prepared: 11/06/24 Analyzed: 11/09/24						
Arsenic	0.475	0.010	mg/L	0.5000		95.0	80-120	8.05	20	
Cadmium	0.499	0.0040	mg/L	0.5000		99.7	80-120	10.1	20	
Lead	0.507	0.010	mg/L	0.5000		101	80-120	8.33	20	
Silver	0.523	0.010	mg/L	0.5000		105	80-120	10.1	20	
Thallium	0.462	0.050	mg/L	0.5000		92.3	80-120	12.3	20	
Vanadium	0.488	0.010	mg/L	0.5000		97.7	80-120	10.5	20	
Zinc	1.02	0.010	mg/L	1.000		102	80-120	9.78	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A											
Matrix Spike (B391602-MS1)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/07/24							
Aluminum	0.640	0.050	mg/L	0.5000	0.0979	108		75-125			
Antimony	0.561	0.050	mg/L	0.5000	ND	112		75-125			
Barium	0.578	0.050	mg/L	0.5000	0.0341	109		75-125			
Beryllium	0.542	0.0040	mg/L	0.5000	ND	108		75-125			
Calcium	45.3	0.50	mg/L	4.000	39.1	**154**	*	75-125			MS-19
Chromium	0.533	0.010	mg/L	0.5000	ND	107		75-125			
Cobalt	0.525	0.010	mg/L	0.5000	ND	105		75-125			
Copper	1.12	0.010	mg/L	1.000	ND	112		75-125			
Iron	4.49	0.050	mg/L	4.000	0.270	106		75-125			
Magnesium	65.7	0.050	mg/L	4.000	58.9	**171**	*	75-125			MS-19
Manganese	0.543	0.010	mg/L	0.5000	0.0251	104		75-125			
Nickel	0.503	0.010	mg/L	0.5000	0.00502	99.5		75-125			
Potassium	24.4	2.0	mg/L	4.000	19.3	**129**	*	75-125			MS-19
Selenium	0.545	0.050	mg/L	0.5000	ND	109		75-125			
Matrix Spike (B391602-MS3)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/09/24							
Arsenic	0.504	0.010	mg/L	0.5000	ND	101		75-125			
Cadmium	0.508	0.0040	mg/L	0.5000	ND	102		75-125			
Lead	0.484	0.010	mg/L	0.5000	0.00566	95.7		75-125			
Silver	0.534	0.010	mg/L	0.5000	ND	107		75-125			
Thallium	0.487	0.050	mg/L	0.5000	ND	97.5		75-125			
Vanadium	0.511	0.010	mg/L	0.5000	0.00645	101		75-125			
Zinc	0.977	0.010	mg/L	1.000	ND	97.7		75-125			
Matrix Spike (B391602-MS5)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/09/24							
Sodium	548	20	mg/L	4.000	519	**735**	*	75-125			MS-19
Matrix Spike Dup (B391602-MSD1)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/07/24							
Aluminum	0.617	0.050	mg/L	0.5000	0.0979	104		75-125	3.58	20	
Antimony	0.544	0.050	mg/L	0.5000	ND	109		75-125	3.07	20	
Barium	0.551	0.050	mg/L	0.5000	0.0341	103		75-125	4.73	20	
Beryllium	0.521	0.0040	mg/L	0.5000	ND	104		75-125	4.00	20	
Calcium	43.4	0.50	mg/L	4.000	39.1	108		75-125	4.13	20	
Chromium	0.514	0.010	mg/L	0.5000	ND	103		75-125	3.58	20	
Cobalt	0.508	0.010	mg/L	0.5000	ND	102		75-125	3.22	20	
Copper	1.08	0.010	mg/L	1.000	ND	108		75-125	3.86	20	
Iron	4.32	0.050	mg/L	4.000	0.270	101		75-125	3.89	20	
Magnesium	63.0	0.050	mg/L	4.000	58.9	103		75-125	4.22	20	
Manganese	0.522	0.010	mg/L	0.5000	0.0251	99.4		75-125	4.03	20	
Nickel	0.485	0.010	mg/L	0.5000	0.00502	96.0		75-125	3.54	20	
Potassium	23.4	2.0	mg/L	4.000	19.3	103		75-125	4.39	20	
Selenium	0.535	0.050	mg/L	0.5000	ND	107		75-125	1.86	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A											
Matrix Spike Dup (B391602-MSD3)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/09/24							
Arsenic	0.482	0.010	mg/L	0.5000	ND	96.5		75-125	4.46	20	
Cadmium	0.482	0.0040	mg/L	0.5000	ND	96.4		75-125	5.22	20	
Lead	0.463	0.010	mg/L	0.5000	0.00566	91.6		75-125	4.38	20	
Silver	0.505	0.010	mg/L	0.5000	ND	101		75-125	5.63	20	
Thallium	0.463	0.050	mg/L	0.5000	ND	92.5		75-125	5.21	20	
Vanadium	0.483	0.010	mg/L	0.5000	0.00645	95.4		75-125	5.66	20	
Zinc	0.926	0.010	mg/L	1.000	ND	92.6		75-125	5.31	20	
Matrix Spike Dup (B391602-MSD5)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/09/24							
Sodium	503	20	mg/L	4.000	519	**-400**	*	75-125	8.63	20	MS-19
Post Spike (B391602-PS1)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/07/24							
Aluminum	2.31		mg/L	2.000	0.0960	111		75-125			
Antimony	1.94		mg/L	2.000	0.00265	96.8		75-125			
Barium	2.43		mg/L	2.000	0.0334	120		75-125			
Beryllium	2.28		mg/L	2.000	0.000409	114		75-125			
Calcium	56.3		mg/L	16.00	38.3	112		75-125			
Chromium	1.94		mg/L	2.000	0.000897	96.9		75-125			
Cobalt	1.91		mg/L	2.000	0.000415	95.7		75-125			
Copper	4.06		mg/L	4.000	0.00780	101		75-125			
Iron	17.8		mg/L	16.00	0.264	110		75-125			
Magnesium	74.7		mg/L	16.00	57.7	106		75-125			
Manganese	2.18		mg/L	2.000	0.0246	108		75-125			
Nickel	1.82		mg/L	2.000	0.00492	90.8		75-125			
Potassium	36.7		mg/L	16.00	18.9	111		75-125			
Selenium	1.90		mg/L	2.000	-0.000904	94.8		75-125			
Dilution Check (B391602-SRL1)	**Source: 24K0186-12**			Prepared: 11/06/24 Analyzed: 11/07/24							
Aluminum	ND	0.25	mg/L		ND					20	
Antimony	ND	0.25	mg/L		ND					20	
Barium	ND	0.25	mg/L		ND					20	
Beryllium	ND	0.020	mg/L		ND					20	
Calcium	38.8	2.5	mg/L		39.1				0.714	20	
Chromium	ND	0.050	mg/L		ND					20	
Cobalt	ND	0.050	mg/L		ND					20	
Copper	ND	0.050	mg/L		ND					20	
Iron	0.284	0.25	mg/L		0.270				5.24	20	
Magnesium	59.2	0.25	mg/L		58.9				0.474	20	
Manganese	0.0267	0.050	mg/L		0.0251				6.06	20	J
Nickel	ND	0.050	mg/L		ND					20	
Potassium	19.2	10	mg/L		19.3				0.288	20	
Selenium	ND	0.25	mg/L		ND					20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391602 - SW-846 3005A										
Dilution Check (B391602-SRL2)		**Source: 24K0395-01**		Prepared: 11/06/24 Analyzed: 11/07/24						
Aluminum	ND	0.25	mg/L		ND				20	
Antimony	ND	0.25	mg/L		ND				20	
Barium	ND	0.25	mg/L		ND				20	
Beryllium	ND	0.020	mg/L		ND				20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	38.1	0.25	mg/L		37.4			1.83	20	
Magnesium	59.8	0.25	mg/L		60.3			0.712	20	
Manganese	1.62	0.050	mg/L		1.58			2.29	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	11.6	10	mg/L		11.7			0.254	20	
Selenium	ND	0.25	mg/L		ND				20	
Sodium	246	10	mg/L		246			0.0753	20	
Batch B391603 - SW-846 3050B										
Blank (B391603-BLK1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	ND	16	mg/Kg wet							
Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	3.2	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.32	mg/Kg wet							
Calcium	ND	16	mg/Kg wet							
Chromium	ND	0.64	mg/Kg wet							
Cobalt	ND	1.6	mg/Kg wet							
Copper	ND	1.3	mg/Kg wet							
Iron	ND	16	mg/Kg wet							
Lead	ND	0.48	mg/Kg wet							
Magnesium	ND	16	mg/Kg wet							
Manganese	ND	0.32	mg/Kg wet							
Nickel	ND	0.64	mg/Kg wet							
Selenium	ND	3.2	mg/Kg wet							
Sodium	ND	160	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Vanadium	ND	0.64	mg/Kg wet							
Zinc	ND	0.64	mg/Kg wet							
Blank (B391603-BLK2)				Prepared: 11/06/24 Analyzed: 11/11/24						
Potassium	ND	160	mg/Kg wet							
Silver	ND	0.32	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B											
LCS (B391603-BS1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5230	50	mg/Kg wet	5940		88.1		46.1-153.9			
Antimony	92.5	5.0	mg/Kg wet	121.0		76.4		2.1-200.8			
Arsenic	224	9.9	mg/Kg wet	242.0		92.7		81.8-118.6			
Barium	296	5.0	mg/Kg wet	295.0		100		81.7-118.3			
Beryllium	159	0.50	mg/Kg wet	160.0		99.5		82.5-117.5			
Cadmium	82.7	0.99	mg/Kg wet	84.30		98.1		82.2-117.8			
Calcium	5170	50	mg/Kg wet	5270		98.1		82.5-117.5			
Chromium	215	2.0	mg/Kg wet	213.0		101		81.2-119.2			
Cobalt	135	5.0	mg/Kg wet	137.0		98.2		83.2-117.5			
Copper	207	4.0	mg/Kg wet	195.0		106		83.1-116.9			
Iron	6790	50	mg/Kg wet	6650		102		58.6-141.5			
Lead	190	1.5	mg/Kg wet	194.0		97.7		82-118.6			
Magnesium	1730	50	mg/Kg wet	1860		93.0		75.3-124.2			
Manganese	287	0.99	mg/Kg wet	264.0		109		80.7-118.9			
Nickel	293	2.0	mg/Kg wet	298.0		98.3		82.2-117.8			
Selenium	258	9.9	mg/Kg wet	272.0		94.7		80.1-119.5			
Sodium	402	500	mg/Kg wet	406.0		99.0		74.9-124.9			J
Thallium	107	5.0	mg/Kg wet	108.0		99.3		80-119.4			
Vanadium	177	2.0	mg/Kg wet	169.0		105		78.1-122.5			
Zinc	225	2.0	mg/Kg wet	236.0		95.3		80.1-120.3			
LCS (B391603-BS2)				Prepared: 11/06/24 Analyzed: 11/11/24							
Potassium	1990	500	mg/Kg wet	2010		99.2		70.6-129.4			
Silver	76.8	0.99	mg/Kg wet	76.70		100		79.5-120.5			
LCS Dup (B391603-BSD1)				Prepared: 11/06/24 Analyzed: 11/08/24							
Aluminum	5220	50	mg/Kg wet	5940		88.0		46.1-153.9	0.130	30	
Antimony	97.7	5.0	mg/Kg wet	121.0		80.7		2.1-200.8	5.48	30	
Arsenic	231	9.9	mg/Kg wet	242.0		95.4		81.8-118.6	2.80	30	
Barium	326	5.0	mg/Kg wet	295.0		110		81.7-118.3	9.54	20	
Beryllium	161	0.50	mg/Kg wet	160.0		101		82.5-117.5	1.16	30	
Cadmium	85.0	0.99	mg/Kg wet	84.30		101		82.2-117.8	2.77	20	
Calcium	5300	50	mg/Kg wet	5270		101		82.5-117.5	2.46	30	
Chromium	224	2.0	mg/Kg wet	213.0		105		81.2-119.2	4.41	30	
Cobalt	138	5.0	mg/Kg wet	137.0		101		83.2-117.5	2.46	20	
Copper	210	4.0	mg/Kg wet	195.0		108		83.1-116.9	1.66	30	
Iron	6210	50	mg/Kg wet	6650		93.3		58.6-141.5	8.96	30	
Lead	191	1.5	mg/Kg wet	194.0		98.5		82-118.6	0.813	30	
Magnesium	1730	50	mg/Kg wet	1860		92.7		75.3-124.2	0.279	30	
Manganese	341	0.99	mg/Kg wet	264.0		**129**	*	80.7-118.9	17.1	30	L-07
Nickel	299	2.0	mg/Kg wet	298.0		100		82.2-117.8	2.15	30	
Selenium	262	9.9	mg/Kg wet	272.0		96.4		80.1-119.5	1.80	30	
Sodium	402	500	mg/Kg wet	406.0		99.0		74.9-124.9	0.0471	30	J
Thallium	110	5.0	mg/Kg wet	108.0		102		80-119.4	2.82	30	
Vanadium	181	2.0	mg/Kg wet	169.0		107		78.1-122.5	2.15	30	
Zinc	229	2.0	mg/Kg wet	236.0		97.1		80.1-120.3	1.83	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391603 - SW-846 3050B										
LCS Dup (B391603-BSD2)				Prepared: 11/06/24 Analyzed: 11/11/24						
Potassium	1960	500	mg/Kg wet	2010		97.6	70.6-129.4	1.64	30	
Silver	74.9	0.99	mg/Kg wet	76.70		97.7	79.5-120.5	2.49	30	
Dilution Check (B391603-SRL1)		**Source: 24K0174-05**		Prepared: 11/06/24 Analyzed: 11/08/24						
Aluminum	2870	93	mg/Kg dry		2830			1.54	20	
Antimony	ND	9.3	mg/Kg dry		ND				20	
Arsenic	2.97	19	mg/Kg dry		ND			16.5	20	J
Barium	29.5	9.3	mg/Kg dry		28.8			2.50	20	
Beryllium	ND	0.93	mg/Kg dry		ND				20	
Cadmium	ND	1.9	mg/Kg dry		ND				20	
Calcium	6460	93	mg/Kg dry		6250			3.29	20	
Chromium	5.59	3.7	mg/Kg dry		5.34			4.53	20	
Cobalt	3.09	9.3	mg/Kg dry		2.83			8.61	20	J
Copper	8.89	7.5	mg/Kg dry		8.28			7.09	20	
Iron	7040	93	mg/Kg dry		6610			6.22	20	
Lead	3.80	2.8	mg/Kg dry		3.33			13.0	20	
Magnesium	2580	93	mg/Kg dry		2480			3.68	20	
Manganese	199	1.9	mg/Kg dry		191			3.90	20	
Nickel	8.65	3.7	mg/Kg dry		7.60			13.0	20	
Selenium	ND	19	mg/Kg dry		ND				20	
Sodium	ND	930	mg/Kg dry		ND				20	
Thallium	ND	9.3	mg/Kg dry		ND				20	
Vanadium	8.29	3.7	mg/Kg dry		8.38			1.14	20	
Zinc	16.0	3.7	mg/Kg dry		14.6			9.12	20	
Batch B392629 - SW-846 7470A Prep										
Blank (B392629-BLK1)				Prepared: 11/19/24 Analyzed: 11/20/24						
Mercury	ND	0.00020	mg/L							
LCS (B392629-BS1)				Prepared: 11/19/24 Analyzed: 11/20/24						
Mercury	0.00388	0.00020	mg/L	0.004020		96.5	80-120			
LCS Dup (B392629-BSD1)				Prepared: 11/19/24 Analyzed: 11/20/24						
Mercury	0.00388	0.00020	mg/L	0.004020		96.5	80-120	0.0789	20	
Matrix Spike (B392629-MS1)		**Source: 24K0186-12**		Prepared: 11/19/24 Analyzed: 11/20/24						
Mercury	0.00398	0.00020	mg/L	0.004020	ND	99.1	75-125			
Matrix Spike Dup (B392629-MSD1)		**Source: 24K0186-12**		Prepared: 11/19/24 Analyzed: 11/20/24						
Mercury	0.00399	0.00020	mg/L	0.004020	ND	99.2	75-125	0.124	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392807 - SW-846 7471										
Blank (B392807-BLK1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Mercury	ND	0.026	mg/Kg wet							
LCS (B392807-BS1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Mercury	21.5	1.9	mg/Kg wet	22.80		94.1	70.6-129.4			
LCS Dup (B392807-BSD1)				Prepared: 11/21/24 Analyzed: 11/22/24						
Mercury	17.7	1.8	mg/Kg wet	22.80		77.8	70.6-129.4	19.0	20	
Batch B393090 - SW-846 7471										
Blank (B393090-BLK1)				Prepared & Analyzed: 11/25/24						
Mercury	ND	0.024	mg/Kg wet							
LCS (B393090-BS1)				Prepared & Analyzed: 11/25/24						
Mercury	22.5	1.6	mg/Kg wet	22.80		98.6	70.6-129.4			
LCS Dup (B393090-BSD1)				Prepared & Analyzed: 11/25/24						
Mercury	20.8	1.8	mg/Kg wet	22.80		91.1	70.6-129.4	7.92	20	
Matrix Spike (B393090-MS1)	**Source: 24K0186-07**			Prepared & Analyzed: 11/25/24						
Mercury	0.355	0.027	mg/Kg dry	0.3602	0.0379	88.0	80-120			
Matrix Spike Dup (B393090-MSD1)	**Source: 24K0186-07**			Prepared & Analyzed: 11/25/24						
Mercury	0.320	0.026	mg/Kg dry	0.3524	0.0379	80.0	80-120	10.4	20	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391656 - SW-846 9010C										
Blank (B391656-BLK1)				Prepared & Analyzed: 11/07/24						
Cyanide	ND	0.010	mg/L							
LCS (B391656-BS1)				Prepared & Analyzed: 11/07/24						
Cyanide	0.27	0.010	mg/L	0.3000		90.2	80-120			
LCS Dup (B391656-BSD1)				Prepared & Analyzed: 11/07/24						
Cyanide	0.27	0.010	mg/L	0.3000		88.9	80-120	1.41	20	
Batch B391854 - SW-846 9010C										
Blank (B391854-BLK1)				Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B391854-BS1)				Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	110	4.9	mg/Kg wet	84.08		129	30.6-170			
LCS Dup (B391854-BSD1)				Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	93	5.0	mg/Kg wet	86.19		108	30.6-170	15.9	30	
Matrix Spike (B391854-MS1)	**Source: 24K0186-07**			Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	16	0.52	mg/Kg dry	15.46	ND	101	75-125			
Matrix Spike Dup (B391854-MSD1)	**Source: 24K0186-07**			Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	16	0.53	mg/Kg dry	15.89	ND	99.8	75-125	1.68	30	
Batch B391856 - SW-846 9010C										
Blank (B391856-BLK1)				Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	ND	0.010	mg/L							
LCS (B391856-BS1)				Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	0.31	0.010	mg/L	0.3000		104	80-120			
LCS Dup (B391856-BSD1)				Prepared: 11/10/24 Analyzed: 11/11/24						
Cyanide	0.31	0.010	mg/L	0.3000		103	80-120	0.822	20	
Batch B391886 - SW-846 9010C										
Blank (B391886-BLK1)				Prepared & Analyzed: 11/11/24						
Cyanide	ND	0.50	mg/Kg wet							

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391886 - SW-846 9010C										
LCS (B391886-BS1)				Prepared & Analyzed: 11/11/24						
Cyanide	83	4.6	mg/Kg wet	78.63		105	30.6-170			
LCS Dup (B391886-BSD1)				Prepared & Analyzed: 11/11/24						
Cyanide	96	5.0	mg/Kg wet	85.62		112	30.6-170	14.6	30	
Matrix Spike (B391886-MS1)		**Source: 24K0186-16**		Prepared & Analyzed: 11/11/24						
Cyanide	13	0.55	mg/Kg dry	16.39	ND	81.1	75-125			
Matrix Spike Dup (B391886-MSD1)		**Source: 24K0186-16**		Prepared & Analyzed: 11/11/24						
Cyanide	17	0.62	mg/Kg dry	18.74	ND	88.3	75-125	21.8	30	
Batch B392045 - % Solids										
Duplicate (B392045-DUP1)		**Source: 24K0186-04**		Prepared & Analyzed: 11/12/24						
% Solids	91.6		% Wt		92.1			0.541	10	

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QUALITY CONTROL

TCLP - 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 B392437 - SW-846 5030B										
Blank (B392437-BLK1)				Prepared: 11/18/24 Analyzed: 11/19/24						
Benzene	ND	0.010	mg/L							
2-Butanone (MEK)	ND	0.20	mg/L							
Carbon Tetrachloride	ND	0.010	mg/L							
Chlorobenzene	ND	0.010	mg/L							
Chloroform	ND	0.010	mg/L							
1,4-Dichlorobenzene	ND	0.010	mg/L							
1,2-Dichloroethane	ND	0.010	mg/L							
1,1-Dichloroethylene	ND	0.010	mg/L							
Tetrachloroethylene	ND	0.010	mg/L							
Trichloroethylene	ND	0.010	mg/L							
Vinyl Chloride	ND	0.020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0264*		mg/L	0.02500		105	70-130			
Surrogate: Toluene-d8	*0.0241*		mg/L	0.02500		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0221*		mg/L	0.02500		88.5	70-130			
LCS (B392437-BS1)				Prepared & Analyzed: 11/18/24						
Benzene	0.0106	0.0010	mg/L	0.01000		106	70-130			
2-Butanone (MEK)	0.117	0.020	mg/L	0.1000		117	40-160			†
Carbon Tetrachloride	0.00968	0.0010	mg/L	0.01000		96.8	70-130			
Chlorobenzene	0.0109	0.0010	mg/L	0.01000		109	70-130			
Chloroform	0.0112	0.0010	mg/L	0.01000		112	70-130			
1,4-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,2-Dichloroethane	0.0114	0.0010	mg/L	0.01000		114	70-130			
1,1-Dichloroethylene	0.0106	0.0010	mg/L	0.01000		106	70-130			
Tetrachloroethylene	0.0107	0.0010	mg/L	0.01000		107	70-130			
Trichloroethylene	0.0104	0.0010	mg/L	0.01000		104	70-130			
Vinyl Chloride	0.00999	0.0020	mg/L	0.01000		99.9	40-160			†
Surrogate: 1,2-Dichloroethane-d4	*0.0252*		mg/L	0.02500		101	70-130			
Surrogate: Toluene-d8	*0.0260*		mg/L	0.02500		104	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0239*		mg/L	0.02500		95.8	70-130			
LCS Dup (B392437-BSD1)				Prepared & Analyzed: 11/18/24						
Benzene	0.0114	0.0010	mg/L	0.01000		114	70-130	7.71	25	
2-Butanone (MEK)	0.103	0.020	mg/L	0.1000		103	40-160	12.9	25	†
Carbon Tetrachloride	0.0106	0.0010	mg/L	0.01000		106	70-130	8.88	25	
Chlorobenzene	0.0109	0.0010	mg/L	0.01000		109	70-130	0.0918	25	
Chloroform	0.0108	0.0010	mg/L	0.01000		108	70-130	3.36	25	
1,4-Dichlorobenzene	0.00980	0.0010	mg/L	0.01000		98.0	70-130	3.61	25	
1,2-Dichloroethane	0.0121	0.0010	mg/L	0.01000		121	70-130	6.20	25	
1,1-Dichloroethylene	0.0102	0.0010	mg/L	0.01000		102	70-130	3.37	25	
Tetrachloroethylene	0.0106	0.0010	mg/L	0.01000		106	70-130	0.656	25	
Trichloroethylene	0.0106	0.0010	mg/L	0.01000		106	70-130	1.24	25	
Vinyl Chloride	0.00963	0.0020	mg/L	0.01000		96.3	40-160	3.67	25	†
Surrogate: 1,2-Dichloroethane-d4	*0.0264*		mg/L	0.02500		105	70-130			
Surrogate: Toluene-d8	*0.0250*		mg/L	0.02500		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0241*		mg/L	0.02500		96.4	70-130			

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QUALITY CONTROL

TCLP - 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 B392435 - SW-846 3510C												
Blank (B392435-BLK1)				Prepared: 11/18/24 Analyzed: 11/19/24								
2,4-Dinitrotoluene	ND	0.037	mg/L									
Hexachlorobenzene	ND	0.037	mg/L									
Hexachlorobutadiene	ND	0.037	mg/L									
Hexachloroethane	ND	0.037	mg/L									
2-Methylphenol	ND	0.037	mg/L									
3/4-Methylphenol	ND	0.037	mg/L									
Nitrobenzene	ND	0.037	mg/L									
Pentachlorophenol	ND	0.037	mg/L								V-05	
Pyridine	ND	0.019	mg/L								V-34	
2,4,5-Trichlorophenol	ND	0.037	mg/L									
2,4,6-Trichlorophenol	ND	0.037	mg/L									
Surrogate: 2-Fluorophenol	*0.464*		mg/L	0.7407		62.7	15-110					
Surrogate: Phenol-d6	*0.458*		mg/L	0.7407		61.9	15-110					
Surrogate: Nitrobenzene-d5	*0.276*		mg/L	0.3704		74.5	30-130					
Surrogate: 2-Fluorobiphenyl	*0.266*		mg/L	0.3704		71.8	30-130					
Surrogate: 2,4,6-Tribromophenol	*0.537*		mg/L	0.7407		72.5	15-110					
Surrogate: p-Terphenyl-d14	*0.302*		mg/L	0.3704		81.6	30-130					
LCS (B392435-BS1)				Prepared: 11/18/24 Analyzed: 11/19/24								
2,4-Dinitrotoluene	0.0439	0.010	mg/L	0.05000		87.8	40-140					
Hexachlorobenzene	0.0410	0.010	mg/L	0.05000		82.1	40-140					
Hexachlorobutadiene	0.0319	0.010	mg/L	0.05000		63.7	40-140					
Hexachloroethane	0.0318	0.010	mg/L	0.05000		63.6	40-140					
2-Methylphenol	0.0332	0.010	mg/L	0.05000		66.4	30-130					
3/4-Methylphenol	0.0335	0.010	mg/L	0.05000		67.0	30-130					
Nitrobenzene	0.0370	0.010	mg/L	0.05000		74.1	40-140				R-05	
Pentachlorophenol	0.0303	0.010	mg/L	0.05000		60.6	30-130				V-05	
Pyridine	0.00771	0.0050	mg/L	0.05000		15.4	10-140				V-34	†
2,4,5-Trichlorophenol	0.0389	0.010	mg/L	0.05000		77.8	30-130					
2,4,6-Trichlorophenol	0.0362	0.010	mg/L	0.05000		72.4	30-130					
Surrogate: 2-Fluorophenol	*0.105*		mg/L	0.2000		52.5	15-110					
Surrogate: Phenol-d6	*0.0740*		mg/L	0.2000		37.0	15-110					
Surrogate: Nitrobenzene-d5	*0.0805*		mg/L	0.1000		80.5	30-130					
Surrogate: 2-Fluorobiphenyl	*0.0780*		mg/L	0.1000		78.0	30-130					
Surrogate: 2,4,6-Tribromophenol	*0.176*		mg/L	0.2000		87.9	15-110					
Surrogate: p-Terphenyl-d14	*0.0890*		mg/L	0.1000		89.0	30-130					
LCS Dup (B392435-BSD1)				Prepared: 11/18/24 Analyzed: 11/19/24								
2,4-Dinitrotoluene	0.0473	0.010	mg/L	0.05000		94.5	40-140	7.35		20		
Hexachlorobenzene	0.0477	0.010	mg/L	0.05000		95.4	40-140	15.0		20		
Hexachlorobutadiene	0.0361	0.010	mg/L	0.05000		72.2	40-140	12.5		20		
Hexachloroethane	0.0374	0.010	mg/L	0.05000		74.8	40-140	16.2		50		‡
2-Methylphenol	0.0400	0.010	mg/L	0.05000		80.0	30-130	18.6		20		
3/4-Methylphenol	0.0410	0.010	mg/L	0.05000		81.9	30-130	20.0		20		
Nitrobenzene	0.0454	0.010	mg/L	0.05000		90.8	40-140	**20.3**	*	20	R-05	
Pentachlorophenol	0.0340	0.010	mg/L	0.05000		68.0	30-130	11.5		50	V-05	‡
Pyridine	0.00597	0.0050	mg/L	0.05000		11.9	10-140	25.4		50	V-34	† ‡
2,4,5-Trichlorophenol	0.0444	0.010	mg/L	0.05000		88.9	30-130	13.3		20		
2,4,6-Trichlorophenol	0.0425	0.010	mg/L	0.05000		85.1	30-130	16.1		50		‡
Surrogate: 2-Fluorophenol	*0.128*		mg/L	0.2000		63.9	15-110					
Surrogate: Phenol-d6	*0.0896*		mg/L	0.2000		44.8	15-110					
Surrogate: Nitrobenzene-d5	*0.0969*		mg/L	0.1000		96.9	30-130					

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QUALITY CONTROL

TCLP - 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 B392435 - SW-846 3510C										
LCS Dup (B392435-BSD1)				Prepared: 11/18/24 Analyzed: 11/19/24						
Surrogate: 2-Fluorobiphenyl	*0.0923*		mg/L	0.1000		92.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*0.190*		mg/L	0.2000		94.9	15-110			
Surrogate: p-Terphenyl-d14	*0.0977*		mg/L	0.1000		97.7	30-130			

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QUALITY CONTROL

TCLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392432 - SW-846 3510C										
Blank (B392432-BLK1)				Prepared: 11/18/24 Analyzed: 11/19/24						
gamma-BHC (Lindane)	ND	0.029	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.029	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
Endrin	ND	0.078	µg/L							
Endrin [2C]	ND	0.078	µg/L							
Heptachlor	ND	0.049	µg/L							
Heptachlor [2C]	ND	0.049	µg/L							
Methoxychlor	ND	0.49	µg/L							V-05
Methoxychlor [2C]	ND	0.49	µg/L							
Toxaphene	ND	0.98	µg/L							
Toxaphene [2C]	ND	0.98	µg/L							
Surrogate: Decachlorobiphenyl	*1.65*		µg/L	1.961		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	1.961		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.26*		µg/L	1.961		64.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.31*		µg/L	1.961		66.9	30-150			
LCS (B392432-BS1)				Prepared: 11/18/24 Analyzed: 11/19/24						
gamma-BHC (Lindane)	0.72	0.030	µg/L	1.000		72.1	40-140			
gamma-BHC (Lindane) [2C]	0.78	0.030	µg/L	1.000		77.7	40-140			
Endrin	0.72	0.080	µg/L	1.000		72.3	40-140			
Endrin [2C]	0.78	0.080	µg/L	1.000		78.0	40-140			
Heptachlor	0.68	0.050	µg/L	1.000		68.1	40-140			
Heptachlor [2C]	0.74	0.050	µg/L	1.000		73.8	40-140			
Methoxychlor	0.58	0.50	µg/L	1.000		58.0	40-140			V-05
Methoxychlor [2C]	0.61	0.50	µg/L	1.000		61.3	40-140			
Surrogate: Decachlorobiphenyl	*1.49*		µg/L	2.000		74.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.51*		µg/L	2.000		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.31*		µg/L	2.000		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.36*		µg/L	2.000		68.1	30-150			
LCS Dup (B392432-BSD1)				Prepared: 11/18/24 Analyzed: 11/19/24						
gamma-BHC (Lindane)	0.73	0.030	µg/L	1.000		72.8	40-140	0.893	20	
gamma-BHC (Lindane) [2C]	0.78	0.030	µg/L	1.000		78.5	40-140	1.05	20	
Endrin	0.73	0.080	µg/L	1.000		73.2	40-140	1.14	20	
Endrin [2C]	0.79	0.080	µg/L	1.000		78.9	40-140	1.19	20	
Heptachlor	0.68	0.050	µg/L	1.000		68.2	40-140	0.201	20	
Heptachlor [2C]	0.74	0.050	µg/L	1.000		74.1	40-140	0.503	20	
Methoxychlor	0.57	0.50	µg/L	1.000		57.0	40-140	1.79	20	V-05
Methoxychlor [2C]	0.60	0.50	µg/L	1.000		60.4	40-140	1.42	20	
Surrogate: Decachlorobiphenyl	*1.42*		µg/L	2.000		71.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.44*		µg/L	2.000		72.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.27*		µg/L	2.000		63.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.32*		µg/L	2.000		66.2	30-150			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392457 - SW-846 3010A											
Blank (B392457-BLK1)				Prepared & Analyzed: 11/18/24							
Arsenic	ND	0.050	mg/L								
Barium	ND	0.50	mg/L								
Cadmium	ND	0.010	mg/L								
Chromium	ND	0.050	mg/L								
Lead	ND	0.10	mg/L								
Selenium	ND	0.050	mg/L								
Silver	ND	0.050	mg/L								
LCS (B392457-BS1)				Prepared & Analyzed: 11/18/24							
Arsenic	0.568	0.050	mg/L	0.5000		114		80-120			
Barium	0.590	0.50	mg/L	0.5000		118		80-120			
Cadmium	0.600	0.010	mg/L	0.5000		120		80-120			
Chromium	0.542	0.050	mg/L	0.5000		108		80-120			
Lead	0.502	0.10	mg/L	0.5000		100		80-120			
Selenium	0.617	0.050	mg/L	0.5000		**123**	*	80-120			L-07
Silver	0.580	0.050	mg/L	0.5000		116		80-120			
LCS Dup (B392457-BSD1)				Prepared & Analyzed: 11/18/24							
Arsenic	0.520	0.050	mg/L	0.5000		104		80-120	8.93	20	
Barium	0.585	0.50	mg/L	0.5000		117		80-120	0.877	20	
Cadmium	0.555	0.010	mg/L	0.5000		111		80-120	7.85	20	
Chromium	0.505	0.050	mg/L	0.5000		101		80-120	6.97	35	
Lead	0.462	0.10	mg/L	0.5000		92.5		80-120	8.16	20	
Selenium	0.561	0.050	mg/L	0.5000		112		80-120	9.58	20	
Silver	0.652	0.050	mg/L	0.5000		**130**	*	80-120	11.6	20	L-07
Dilution Check (B392457-SRL1)		**Source: 24K0451-02**		Prepared & Analyzed: 11/18/24							
Arsenic	ND	0.25	mg/L		ND					20	
Barium	0.363	2.5	mg/L		0.360				0.783	20	J
Cadmium	ND	0.050	mg/L		ND					20	
Chromium	ND	0.25	mg/L		ND					20	
Lead	ND	0.50	mg/L		ND					20	
Selenium	ND	0.25	mg/L		ND					20	
Silver	ND	0.25	mg/L		ND					20	
Batch B392496 - SW-846 7470A Prep											
Blank (B392496-BLK1)				Prepared: 11/18/24 Analyzed: 11/19/24							
Mercury	ND	0.00020	mg/L								
Blank (B392496-BLK2)				Prepared: 11/18/24 Analyzed: 11/19/24							
Mercury	ND	0.00020	mg/L								

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392496 - SW-846 7470A Prep										
LCS (B392496-BS1)				Prepared: 11/18/24 Analyzed: 11/19/24						
Mercury	0.00399	0.00020	mg/L	0.004020		99.2	80-120			
LCS Dup (B392496-BSD1)				Prepared: 11/18/24 Analyzed: 11/19/24						
Mercury	0.00400	0.00020	mg/L	0.004020		99.4	80-120	0.241	20	
Matrix Spike (B392496-MS1)		**Source: 24K0186-17**		Prepared: 11/18/24 Analyzed: 11/19/24						
Mercury	0.00395	0.00020	mg/L	0.004020	ND	98.2	75-125			

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BREAKDOWN REPORT

Lab Sample ID:	S114162-PEM1	Analyzed:	11/18/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.94
Endrin [1]	2.28

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.34
Endrin [2]	2.35

BREAKDOWN REPORT

Lab Sample ID:	S114162-PEM2	Analyzed:	11/18/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.72
Endrin [1]	8.86

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.43
Endrin [2]	9.43

BREAKDOWN REPORT

Lab Sample ID:	S114172-PEM1	Analyzed:	11/19/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	9.08
Endrin [1]	11.94

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BREAKDOWN REPORT

Lab Sample ID:	S114172-PEM1	Analyzed:	11/19/2024

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	8.60
Endrin [2]	12.65

BREAKDOWN REPORT

Lab Sample ID:	S114450-PEM1	Analyzed:	11/23/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.76
Endrin [1]	2.33

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.52
Endrin [2]	2.42

BREAKDOWN REPORT

Lab Sample ID:	S114571-PEM1	Analyzed:	11/25/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.14
Endrin [1]	1.00

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.16
Endrin [2]	0.99

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID:	S114571-PEM2	Analyzed:	11/25/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.58
Endrin [1]	1.35

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.72
Endrin [2]	1.43

BREAKDOWN REPORT

Lab Sample ID:	S114571-PEM3	Analyzed:	11/26/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.41
Endrin [1]	1.26

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.25
Endrin [2]	1.34

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

DUP(SS) 102924

Lab Sample ID: 24K0186-04 Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.898	6.874	6.934	0.025	
	2	6.970	6.945	7.005	0.024	4.1
4,4'-DDT	1	7.563	7.538	7.598	0.060	
	2	7.655	7.629	7.689	0.052	14.3
alpha-Chlordane	1	6.832	6.817	6.877	0.058	
	2	6.840	6.814	6.874	0.028	69.8
Dieldrin	1	7.120	7.095	7.155	0.018	
	2	7.083	7.057	7.117	0.017	5.7
gamma-Chlordane	1	6.744	6.719	6.779	0.024	
	2	6.733	6.708	6.768	0.024	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

DPT-2(SS) 102924

Lab Sample ID: 24K0186-05

Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2

Instrument ID (2): ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.562	7.538	7.598	0.011	
	2	7.655	7.629	7.689	0.0083	28.0
alpha-Chlordane	1	6.839	6.817	6.877	0.086	
	2	6.840	6.814	6.874	0.054	45.7
Dieldrin	1	7.119	7.095	7.155	0.011	
	2	7.083	7.057	7.117	0.011	0.0
gamma-Chlordane	1	6.743	6.719	6.779	0.057	
	2	6.733	6.708	6.768	0.057	0.0
Heptachlor	1	6.019	5.997	6.057	0.010	
	2	5.976	5.954	6.014	0.010	9.5
Heptachlor Epoxide	1	6.654	6.630	6.690	0.011	
	2	6.596	6.571	6.631	0.0094	15.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

DPT-1(SS) 102924

Lab Sample ID: 24K0186-06 Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.561	7.538	7.598	0.029	
	2	7.655	7.629	7.689	0.024	18.9
alpha-Chlordane	1	6.837	6.817	6.877	0.087	
	2	6.839	6.814	6.874	0.048	57.8
Aroclor-1254	1	0.000	0.000	0.000	0.058	
	2	0.000	0.000	0.000	0.057	1.7
Dieldrin	1	7.119	7.095	7.155	0.082	
	2	7.083	7.057	7.117	0.084	2.4
gamma-Chlordane	1	6.743	6.719	6.779	0.046	
	2	6.732	6.708	6.768	0.047	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

MW-1(SS) 102924

Lab Sample ID: 24K0186-07 Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.896	6.874	6.934	0.024	
	2	6.970	6.945	7.005	0.021	13.3
4,4'-DDT	1	7.562	7.538	7.598	0.051	
	2	7.655	7.629	7.689	0.047	8.2
alpha-Chlordane	1	6.831	6.817	6.877	0.060	
	2	6.839	6.814	6.874	0.027	75.9
Dieldrin	1	7.118	7.095	7.155	0.018	
	2	7.082	7.057	7.117	0.018	0.0
gamma-Chlordane	1	6.742	6.719	6.779	0.025	
	2	6.732	6.708	6.768	0.024	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

SDMT-1 (1-2) 102924

Lab Sample ID: 24K0186-14 Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.346	7.322	7.382	0.25	
	2	7.410	7.385	7.445	0.22	12.8
4,4'-DDE	1	6.897	6.874	6.934	0.041	
	2	6.971	6.945	7.005	0.050	19.8
4,4'-DDT	1	7.561	7.538	7.598	0.032	
	2	7.655	7.629	7.689	0.032	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.25	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.14	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

SDMT-2 (0.5-1) 102924

Lab Sample ID: 24K0186-15 Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.345	7.322	7.382	0.0058	
	2	7.410	7.385	7.445	0.0053	9.0
4,4'-DDE	1	6.897	6.874	6.934	0.0091	
	2	6.969	6.945	7.005	0.0096	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

SDMT-2 (1-2) 102924

Lab Sample ID: 24K0186-16

Date(s) Analyzed: 11/26/2024 11/26/2024

Instrument ID (1): ECD2

Instrument ID (2): ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.346	7.322	7.382	0.012	
	2	7.411	7.385	7.445	0.010	18.2
4,4'-DDE	1	6.898	6.874	6.934	0.0097	
	2	6.972	6.945	7.005	0.0090	7.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B391689-BS1

Date(s) Analyzed: 11/17/2024 11/17/2024

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.14	6.9
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B391689-BSD1 Date(s) Analyzed: 11/17/2024 11/17/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.19	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B391689-MS1

Date(s) Analyzed: 11/17/2024 11/17/2024

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.20	35.3
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.20	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B391689-MSD1 Date(s) Analyzed: 11/17/2024 11/17/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.20	35.3
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391935-BS1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.398	5.369	5.429	0.088	
	2	5.351	5.321	5.381	0.093	5.5
4,4'-DDE	1	4.912	4.882	4.942	0.088	
	2	4.886	4.856	4.916	0.092	4.4
4,4'-DDT	1	5.628	5.599	5.659	0.082	
	2	5.606	5.576	5.636	0.083	1.2
Aldrin	1	4.148	4.118	4.178	0.083	
	2	4.020	3.990	4.050	0.090	8.1
alpha-BHC	1	3.265	3.235	3.295	0.086	
	2	3.152	3.121	3.181	0.090	4.6
alpha-Chlordane	1	4.848	4.818	4.878	0.083	
	2	4.741	4.711	4.771	0.090	8.1
beta-BHC	1	3.589	3.558	3.618	0.080	
	2	3.495	3.464	3.524	0.086	7.2
delta-BHC	1	3.731	3.701	3.761	0.069	
	2	3.721	3.691	3.751	0.071	2.9
Dieldrin	1	5.154	5.124	5.184	0.086	
	2	5.002	4.972	5.032	0.093	7.8
Endosulfan I	1	4.959	4.929	4.989	0.083	
	2	4.782	4.752	4.812	0.091	9.2
Endosulfan II	1	5.526	5.496	5.556	0.084	
	2	5.417	5.387	5.447	0.091	8.0
Endosulfan Sulfate	1	6.196	6.166	6.226	0.072	
	2	5.917	5.888	5.948	0.080	10.5
Endrin	1	5.344	5.314	5.374	0.091	
	2	5.244	5.214	5.274	0.093	2.2
Endrin Aldehyde	1	5.870	5.841	5.901	0.074	
	2	5.693	5.663	5.723	0.082	10.3
Endrin Ketone	1	6.385	6.356	6.416	0.082	
	2	6.291	6.261	6.321	0.081	1.2
gamma-BHC (Lindane)	1	3.520	3.490	3.550	0.081	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B391935-BS1

Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A

Instrument ID (2): ECD 8B

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.427	3.397	3.457	0.087	7.1
gamma-Chlordane	1	4.739	4.709	4.769	0.086	
	2	4.624	4.594	4.654	0.090	4.6
Heptachlor	1	3.904	3.875	3.935	0.087	
	2	3.769	3.739	3.799	0.092	5.6
Heptachlor Epoxide	1	4.639	4.609	4.669	0.085	
	2	4.473	4.443	4.503	0.090	5.7
Methoxychlor	1	6.017	5.987	6.047	0.081	
	2	6.145	6.115	6.175	0.085	4.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391935-BSD1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.398	5.369	5.429	0.080	
	2	5.352	5.321	5.381	0.085	6.1
4,4'-DDE	1	4.912	4.882	4.942	0.080	
	2	4.886	4.856	4.916	0.084	4.9
4,4'-DDT	1	5.628	5.599	5.659	0.073	
	2	5.606	5.576	5.636	0.075	2.7
Aldrin	1	4.147	4.118	4.178	0.075	
	2	4.020	3.990	4.050	0.082	8.9
alpha-BHC	1	3.265	3.235	3.295	0.079	
	2	3.152	3.121	3.181	0.082	3.7
alpha-Chlordane	1	4.847	4.818	4.878	0.075	
	2	4.741	4.711	4.771	0.082	8.9
beta-BHC	1	3.588	3.558	3.618	0.073	
	2	3.495	3.464	3.524	0.078	6.6
delta-BHC	1	3.731	3.701	3.761	0.063	
	2	3.721	3.691	3.751	0.065	3.1
Dieldrin	1	5.154	5.124	5.184	0.078	
	2	5.002	4.972	5.032	0.084	7.4
Endosulfan I	1	4.958	4.929	4.989	0.075	
	2	4.782	4.752	4.812	0.083	10.1
Endosulfan II	1	5.526	5.496	5.556	0.076	
	2	5.417	5.387	5.447	0.082	7.6
Endosulfan Sulfate	1	6.196	6.166	6.226	0.065	
	2	5.917	5.888	5.948	0.072	10.2
Endrin	1	5.344	5.314	5.374	0.082	
	2	5.244	5.214	5.274	0.085	2.4
Endrin Aldehyde	1	5.870	5.841	5.901	0.065	
	2	5.693	5.663	5.723	0.077	16.9
Endrin Ketone	1	6.385	6.356	6.416	0.074	
	2	6.291	6.261	6.321	0.073	1.4
gamma-BHC (Lindane)	1	3.520	3.490	3.550	0.074	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B391935-BSD1 Date(s) Analyzed: 11/18/2024 11/18/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.427	3.397	3.457	0.079	6.5
gamma-Chlordane	1	4.739	4.709	4.769	0.078	
	2	4.624	4.594	4.654	0.082	5.0
Heptachlor	1	3.904	3.875	3.935	0.079	
	2	3.769	3.739	3.799	0.083	4.9
Heptachlor Epoxide	1	4.638	4.609	4.669	0.077	
	2	4.473	4.443	4.503	0.082	6.3
Methoxychlor	1	6.017	5.987	6.047	0.072	
	2	6.144	6.115	6.175	0.076	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B391935-MS1 Date(s) Analyzed: 11/24/2024 11/26/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.345	7.322	7.382	0.098	
	2	7.410	7.385	7.445	0.096	2.1
4,4'-DDE	1	6.897	6.874	6.934	0.13	
	2	6.970	6.945	7.005	0.12	8.0
4,4'-DDT	1	7.562	7.538	7.598	0.16	
	2	7.655	7.629	7.689	0.13	20.7
Aldrin	1	6.226	6.203	6.263	0.089	
	2	6.195	6.170	6.230	0.088	1.1
alpha-BHC	1	5.500	5.478	5.538	0.080	
	2	5.467	5.444	5.504	0.081	1.2
beta-BHC	1	5.758	5.735	5.795	0.087	
	2	5.746	5.722	5.782	0.078	10.9
delta-BHC	1	5.875	5.853	5.913	0.068	
	2	5.937	5.913	5.973	0.066	3.0
Dieldrin	1	7.118	7.095	7.155	0.11	
	2	7.082	7.057	7.117	0.11	0.0
Endosulfan I	1	6.940	6.917	6.977	0.095	
	2	6.879	6.854	6.914	0.094	1.1
Endosulfan II	1	7.462	7.439	7.499	0.094	
	2	7.476	7.451	7.511	0.092	2.2
Endosulfan Sulfate	1	8.112	8.087	8.147	0.089	
	2	7.958	7.932	7.992	0.086	4.6
Endrin	1	7.293	7.270	7.330	0.098	
	2	7.311	7.286	7.346	0.092	7.3
Endrin Aldehyde	1	5.854	-0.030	0.030	0.056	
	2	5.687	-0.030	0.030	0.065	14.9
Endrin Ketone	1	8.301	8.278	8.338	0.088	
	2	8.328	8.301	8.361	0.086	2.3
gamma-BHC (Lindane)	1	5.703	5.681	5.741	0.081	
	2	5.691	5.667	5.727	0.080	1.2
Heptachlor	1	6.020	5.997	6.057	0.094	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B391935-MS1 Date(s) Analyzed: 11/24/2024 11/26/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.977	5.954	6.014	0.094	0.0
Heptachlor Epoxide	1	6.653	6.630	6.690	0.10	
	2	6.595	6.571	6.631	0.096	4.1
Methoxychlor	1	7.943	7.918	7.978	0.096	
	2	8.184	8.157	8.217	0.095	1.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B391935-MSD1 Date(s) Analyzed: 11/24/2024 11/26/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.346	7.322	7.382	0.076	
	2	7.411	7.385	7.445	0.074	2.7
4,4'-DDE	1	6.898	6.874	6.934	0.10	
	2	6.970	6.945	7.005	0.094	6.2
4,4'-DDT	1	7.563	7.538	7.598	0.12	
	2	7.656	7.629	7.689	0.10	18.2
Aldrin	1	6.226	6.203	6.263	0.072	
	2	6.195	6.170	6.230	0.071	1.4
alpha-BHC	1	5.500	5.478	5.538	0.068	
	2	5.468	5.444	5.504	0.065	4.5
beta-BHC	1	5.759	5.735	5.795	0.067	
	2	5.746	5.722	5.782	0.061	10.9
delta-BHC	1	5.876	5.853	5.913	0.052	
	2	5.937	5.913	5.973	0.052	0.0
Dieldrin	1	7.119	7.095	7.155	0.087	
	2	7.083	7.057	7.117	0.087	0.0
Endosulfan I	1	6.941	6.917	6.977	0.076	
	2	6.879	6.854	6.914	0.075	1.3
Endosulfan II	1	7.464	7.439	7.499	0.074	
	2	7.477	7.451	7.511	0.073	1.4
Endosulfan Sulfate	1	8.113	8.087	8.147	0.072	
	2	7.959	7.932	7.992	0.069	4.3
Endrin	1	7.295	7.270	7.330	0.077	
	2	7.312	7.286	7.346	0.072	6.7
Endrin Aldehyde	1	5.855	-0.030	0.030	0.042	
	2	5.688	-0.030	0.030	0.047	11.2
Endrin Ketone	1	8.303	8.278	8.338	0.072	
	2	8.329	8.301	8.361	0.068	5.7
gamma-BHC (Lindane)	1	5.704	5.681	5.741	0.066	
	2	5.691	5.667	5.727	0.065	1.5
Heptachlor	1	6.020	5.997	6.057	0.077	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B391935-MSD1 Date(s) Analyzed: 11/24/2024 11/26/2024

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.977	5.954	6.014	0.075	2.6
Heptachlor Epoxide	1	6.654	6.630	6.690	0.080	
	2	6.596	6.571	6.631	0.077	5.1
Methoxychlor	1	7.945	7.918	7.978	0.077	
	2	8.184	8.157	8.217	0.077	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392432-BS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	5.341	0.000	0.000	0.72	
	2	5.244	0.000	0.000	0.78	8.0
gamma-BHC (Lindane)	1	3.518	0.000	0.000	0.72	
	2	3.427	0.000	0.000	0.78	8.0
Heptachlor	1	3.902	0.000	0.000	0.68	
	2	3.769	0.000	0.000	0.74	8.5
Methoxychlor	1	6.014	0.000	0.000	0.58	
	2	6.144	0.000	0.000	0.61	5.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392432-BSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	5.340	0.000	0.000	0.73	
	2	5.243	0.000	0.000	0.79	7.9
gamma-BHC (Lindane)	1	3.518	0.000	0.000	0.73	
	2	3.427	0.000	0.000	0.78	6.6
Heptachlor	1	3.902	0.000	0.000	0.68	
	2	3.769	0.000	0.000	0.74	8.5
Methoxychlor	1	6.014	0.000	0.000	0.57	
	2	6.144	0.000	0.000	0.60	5.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-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-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
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.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
PF-18	Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-12	Elevated reporting limit due to matrix interference.
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.

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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.
Z-01	Non-extracted internal standard compound recovery <50%. Re-extracted sample exhibited similar results. Possible high bias present on associated extracted internal standard recoveries.
Z-01a	Sample was frozen to extend hold time to 90 days.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
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

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Draft Method 1633 in Water	
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 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	NY,CT,NC,ME,NH,VA
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC

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SW-846 6010D in Soil	
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,NH,NC,ME,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	NY,CT,NH,ME,VA,NC
Silver	NY,CT,NH,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	

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Analyte	Certifications
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA

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Analyte	Certifications
SW-846 8081B in Soil	
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin	CT,ME,NH,NY,VA,NC
Aldrin [2C]	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,ME,NH,NY,VA,NC
alpha-BHC	CT,ME,NH,NY,VA,NC
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,ME,NH,NY,VA,NC
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC	CT,ME,NH,NY,VA,NC
beta-BHC [2C]	CT,ME,NH,NY,VA,NC
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC	CT,ME,NH,NY,VA,NC
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,ME,NH,NY,VA,NC
gamma-BHC (Lindane)	CT,ME,NH,NY,VA,NC
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,ME,NH,NY,VA,NC
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,ME,NH,NY,VA,NC
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,ME,NH,NY,VA,NC
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,ME,NH,NY,VA,NC
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,ME,NH,NY,VA,NC
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,ME,NH,NY,VA,NC
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,ME,NH,NY,VA,NC
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,ME,NH,NY,VA,NC
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,ME,NH,NY,VA,NC

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Analyte	Certifications
SW-846 8081B in Water	
Dieldrin	CT,ME,NH,NY,VA,NC
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,ME,NH,NY,VA,NC
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,ME,NH,NY,VA,NC
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,ME,NH,NY,VA,NC
Endosulfan II	CT,ME,NH,NY,VA,NC
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,ME,NH,NY,VA,NC
Endosulfan Sulfate	CT,ME,NH,NY,VA,NC
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,ME,NH,NY,VA,NC
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin	CT,ME,NH,NY,VA,NC
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,ME,NH,NY,VA,NC
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,ME,NH,NY,VA,NC
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,ME,NH,NY,VA,NC
Endrin Ketone	NC
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,ME,NH,NY,VA,NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,ME,NH,NY,VA,NC
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,ME,NH,NY,VA,NC
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,ME,NH,NY,VA,NC
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor	CT,ME,NH,NY,VA,NC
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,ME,NH,NY,VA,NC
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene	CT,ME,NH,NY,VA,NC
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,ME,NH,NY,VA,NC

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SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
Bromoform	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dibromoethane (EDB)	NH,NY
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA

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Analyte	Certifications
SW-846 8260D in Soil	
Trichloroethylene	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	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
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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

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Analyte	Certifications
SW-846 8260D in Water	
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
Diisopropyl Ether (DIPE)	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
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 Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA

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SW-846 8270E in Soil	
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA

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SW-846 8270E in Soil	
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	ME,NC,NH,NY,VA
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	ME,NC,NH,NY,VA
Acetophenone	NY,NC
Acetophenone	NY,NC
Acetophenone	ME,NC,NH,NY
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Aniline	ME,NC,NH,NY,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	ME,NC,NH,NY,VA
Benzo(a)anthracene	ME,NC,NH,NY,VA
Benzo(a)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(a)pyrene	ME,NC,NH,NY,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	ME,NC,NH,NY,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA

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SW-846 8270E in Water	
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	ME,NC,NH,NY,VA
Benzo(k)fluoranthene	ME,NC,NH,NY,VA
Benzo(k)fluoranthene	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-chloroethoxy)methane	ME,NC,NH,NY,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	ME,NC,NH,NY,VA
2,2'-oxybis(1-Chloropropane)	ME,NC,NH,NY,VA
2,2'-oxybis(1-Chloropropane)	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
Bis(2-Ethylhexyl)phthalate	ME,NC,NH,NY,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	ME,NC,NH,NY,VA
Butylbenzylphthalate	ME,NC,NH,NY,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	ME,NC,NH,NY,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	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-Chloronaphthalene	NC,NY,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	ME,NC,NH,NY,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	ME,NC,NH,NY,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	ME,NC,NH,NY,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	ME,NC,NH,NY,VA

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Analyte	Certifications
SW-846 8270E in Water	
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	ME,NC,NH,NY,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	ME,NC,NH,NY,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	ME,NC,NH,NY,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	ME,NC,NH,NY,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	ME,NC,NH,NY,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	ME,NC,NH,NY,VA
Diethylphthalate	ME,NC,NH,NY,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	ME,NC,NH,NY,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	ME,NC,NH,NY,VA
4,6-Dinitro-2-methylphenol	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-Dinitrophenol	ME,NC,NH,NY,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	ME,NC,NH,CT,NY,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	ME,NC,NH,NY,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	ME,NC,NH,NY,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	ME,NC,NH,NY,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	ME,NC,NH,NY,VA

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Analyte	Certifications
SW-846 8270E in Water	
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	ME,NC,NH,CT,NY,VA
Hexachlorobutadiene	ME,NC,NH,CT,NY,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Hexachloroethane	ME,NC,NH,CT,NY,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	ME,NC,NH,NY,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	ME,NC,NH,NY,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	ME,NC,NH,NY,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	ME,NC,NH,NY,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	ME,NC,NH,CT,NY,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	ME,NC,NH,NY,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	ME,NC,NH,NY,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA

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Analyte	Certifications
SW-846 8270E in Water	
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	ME,NC,NH,CT,NY,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	ME,NC,NH,NY,VA
Phenol	ME,NC,NH,NY,VA
Phenol	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	ME,NC,NH,NY,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	ME,NC,NH,CT,NY,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	ME,NC,NH,NY,VA
2,4,5-Trichlorophenol	ME,NC,NH,CT,NY,VA
2,4,5-Trichlorophenol	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
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	ME,NC,NH,CT,NY,VA
2-Fluorophenol	NC
2-Fluorophenol	NC
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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

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
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

Pace Analytical

Phone: 413-525-2332
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East Longmeadow, MA 01028

24KQ186 https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

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CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address:	201 Fuller Rd, Suite 701, Albany, NY 12203
Consultant Phone:	518-250-7334
Callout Project Name:	Former Commander Oil Terminal - Off-Site
Project Location:	Nassau
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbaquingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYS DEC
Sampled By:	MT / AG

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefano.Bagnato@arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/~~Time~~	~~Ending~~ Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	~~1,4-Dioxane SIM~~ / 8082 PCBs	8081 Pesticide / 8151 Herbicide	~~TAL Total Metals~~ / ~~TCLP RCRA 8 Metals~~ +TCN	PFAS 1633 / PFAS 537 ID	1,4-Dioxane SIM					# of Containers	[2]Preservation Code	[3]Container Code
								18	6	7	7	7	12	6							
								✱	I	I	I	I	I	I							
								V	A	A	A	A	P	A							
1	MW-4(5-6.5)102824	10/24	0900	AG	✓	S	U			X	X	X									
2	EB 102824	10/28	1420		✓	W	U						X								
3	EB 102924	10/29	0740		✓	W	U						X								
4	DUP(SS)102924	10/29	—	AG	✓	S	U	X	X	X	X	X	X	X							
5	DPT-2(SS)102924	10/24	1610	AG	✓	S	U	X	X	X	X	X	X	X							
6	DPT-1(SS)102924	10/29	~~0945~~ 0855	AG	✓	S	U	X	X	X	X	X	X	X							
7	MW-1(SS)102924	10/29	~~0945~~ 0845	AG	✓	S	U	X	X	X	X	X	X	X							
~~8~~	Trip Blank 102924	10/28/24	—		✓	W	U	X													
9	SDMT-3(0.5-1)102924	10/29	1610	AG	✓	S	U	X	X	X	X	X	X	X							
10	SDMT-3(1-2)102924	10/29	1615	AG	✓	S	U	X	X	X	X	X	X	X							

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
Field Filtered ☐
Lab to Filter ☐

Orthophosphate Samples
Field Filtered ☐
Lab to Filter ☐

Comments: ✱ Soil 8260 preserved with M&B. GW 8260 preserved with H
MS/MSD collected at MW-1(SS)102924

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 10/30/24 1314
Received by: (signature) Pace	Date/Time: 10/30 13:19
Relinquished by: (signature)	Date/Time: 10/30 13:41
Received by: (signature) 1.1.2.9.14.7 4.3	Date/Time: 10/31/24 735
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
AWQ STDS ☐ NY TOGS ☑
NYC Sewer Discharge ☐ NY CP-51 ☐
Part 360 GW (Landfill) ☐
NY Restricted Use ☐
NY Unrestricted Use ☐
NY Part 375 ☑
Other:

Deliverables
Enhanced Data Package ☐
NYSDEC EQuIS EDD ☑
EQuIS (Standard) EDD ☐
NY Regulatory EDD ☐
NY Regs Hits-Only EDD ☐
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
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AIHA-LAP,LLC ☐

PCB ONLY
Soxhlet ☐
Non Soxhlet ☐

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East Longmeadow, MA 01028

24110186

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 2 of 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address: 201 Fuller Rd, Suite 201, Albany, NY 12203	
Consultant Phone: 518-250-7334	
Callout Project Name:	Former Commander Oil Terminal - Off-Site
Project Location: Nassau	
Callout Number: 151674	
Site/Spill Number: C130244A	
Project Manager: Steeven Imbaguingo	
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient: NYSDEC	
Sampled By: MT/AG	

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bagnato@Arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/~~Time~~	~~Ending~~ Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	~~1,4 Dioxane SIM~~ / 8082 PCBs	8081 Pesticide / 8151 Herbicide	TAL Total Metals / ~~ICLP RCRA 8 Metals~~	~~PFAS 537 ID~~ / PFAS 1633	1,4-Dioxane SIM	TCLP VOCs	TCLP SVOCs	TCLP pesticides, herbicides, metals
	~~SDMT-1 102924~~ (MS)	~~10/29~~				S	U										
	~~SDMT-2 102924~~ (MS)	~~10/29~~				S	U										
11	SW-1-102924	10/29	1645		✓	W	U	X	X			X	X	X			
12	SW-2-102924	10/29	1620		✓	W	U	X	X			X	X	X			
13	SDMT-1(0.5-1)102924	10/29	1635	AG	✓	S	U	X	X	X	X	X	X	X			
14	SDMT-1(1-2)102924	10/29	1640	AG	✓	S	U	X	X	X	X	X	X	X			
15	SDMT-2(0.5-1)102924	10/29	1625	AG	✓	S	U	X	X	X	X	X	X	X			
16	SDMT-2(1-2)102924	10/29	1630	AG	✓	S	U	X	X	X	X	X	X	X			
17	WC-102924	10/29	1505	AG	✓	S	U								X	X	X
18	SW-3-102924	10/29	1620		✓	W	U	X	X			X	X	X			

	# of Containers	[2] Preservation Code	[3] Container Code
~~SDMT-1 102924~~	~~4~~	~~I~~	~~V~~
~~SDMT-2 102924~~	~~4~~	~~I~~	~~V~~
11 SW-1-102924	4	I	A
12 SW-2-102924	4	I	A
13 SDMT-1(0.5-1)102924	4	I	A
14 SDMT-1(1-2)102924	4	I	A
15 SDMT-2(0.5-1)102924	4	I/N	A/P
16 SDMT-2(1-2)102924	7	I	P
17 WC-102924	13	I	A
18 SW-3-102924	10	I	A
	3	M	V
	1	I	A
	1	I	A

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
Field Filtered ☐
Lab to Filter ☐

Orthophosphate Samples
Field Filtered ☐
Lab to Filter ☐

Comments: * Soil 8260 preserved with M&B. GW 8260 preserved with H.
MS/MSD collected at SW-2-102924.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] Matrix Codes:
GW = Ground Water
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Received by: (signature) 4.1 2.4/4.3	Date/Time: 10/31/24 728
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
AWQ STDS ☐ NY TOGS ☑
NYC Sewer Discharge ☐ NY CP-51 ☐
Part 360 GW (Landfill) ☐
NY Restricted Use ☐
NY Unrestricted Use ☐
NY Part 375 ☑
Other:

Deliverables
Enhanced Data Package ☐
NYSDEC EQuIS EDD ☑
EQuIS (Standard) EDD ☐
NY Regulatory EDD ☐
NY Regs Hits-Only EDD ☐
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
Chromatogram ☐
AIHA-LAP,LLC ☐

PCB ONLY
Soxhlet ☐
Non Soxhlet ☐

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24110186 https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

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Consultant Phone:	518-250-7334
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Project Manager:	Steeven Imbaguingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYS DEC
Sampled By:	MT/AG

Requested Turnaround Time
- DEC Standard 30-calendar day ☑
- Due Date:

Rush (Prior Approval Required)
- 1-Day ☐ 2-Day ☐ 3-Day ☐
- 4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
- Format: PDF ☑ EXCEL ☑
- Other:
- CLP Like (Level 4) Data Pkg Required: ☑
- Email To: Stefan.Bagnato@Arcadis.com
- Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	~~Beginning~~ Date/Time	~~Ending~~ Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	~~8082 PCBs~~ 1,4-Dioxane SIM	8081 Pesticide | 8151 Herbicide	~~TCLP RCRA 8 Metals~~ TAL Total Metals	PFAS 1633 | PFAS 537 ID	# of Containers	[2] Preservation Code	[3] Container Code
								3	2	2		1	3			
								H	I	I		I/N	I			
								V	A	A		P	P			
14	DUP (SW) 102924	10/24	—		✓	W	U	X	X	X		X	X			

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
- ☐ Field Filtered
- ☐ Lab to Filter

Orthophosphate Samples
- ☐ Field Filtered
- ☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
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SOL = Solid
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A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
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T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	10/30/24/1316
Received by: (signature) Pace	10/30 13:19
Relinquished by: (signature)	10/30 13:40
Received by: (signature) 4.1/2-4/4.7	10/31 Pa 735
Relinquished by: (signature) 4.3	
Received by: (signature)	

Program & Regulatory Information
- ☐ AWQ STDS
- ☐ NYC Sewer Discharge
- ☐ Part 360 GW (Landfill)
- ☐ NY Restricted Use
- ☐ NY Unrestricted Use
- ☐ NY Part 375
- ☑ NY TOGS
- ☐ NY CP-51

Other:

Deliverables
- ☐ Enhanced Data Package
- ☑ NYSDEC EQuIS EDD
- ☐ EQuIS (Standard) EDD
- ☐ NY Regulatory EDD
- ☐ NY Regs Hits-Only EDD

Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
- ☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
- ☐ Federal ☐ 21 J ☐ School
- ☐ City ☐ Brownfield ☐ MBTA

Other
- ☐ Chromatogram
- ☐ AIHA-LAP,LLC

PCB ONLY
- ☐ Soxhlet
- ☐ Non Soxhlet

Table of Contents

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

Log in Back-Sheet

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

Client Arcadis

Project Former Precommunder diltermiull -OM S.TL

MCP/RCP Required MA

Deliverable Package Requirement NA

Location Nassau

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time LA 10/31/24 738

Back-Sheet By / Date / Time LA 10/31/24 957

Temperature Method Gun # 6

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

Temp ✓ < 6° C Actual Temperature 4.1 2.4 4.7 4.3

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☑ (LA)
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.

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

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

Qualtrax ID: 120836

ANALYTICAL REPORT

Lab Number:	L2464138
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24K0186
Project Number:	24K0186
Report Date:	11/18/24

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

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

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

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2464138-01	MW-4(5-6.5)102824	SOIL	Not Specified	10/28/24 09:00	11/04/24
L2464138-02	DUP(SS) 102924	SOIL	Not Specified	10/29/24 00:00	11/04/24
L2464138-03	DPT-2(SS) 102924	SOIL	Not Specified	10/29/24 08:10	11/04/24
L2464138-04	DPT-1(SS) 102924	SOIL	Not Specified	10/29/24 08:55	11/04/24
L2464138-05	MW-1(SS) 102924	SOIL	Not Specified	10/29/24 08:45	11/04/24
L2464138-06	SDMT-3(0.5-1) 102924	SOIL	Not Specified	10/29/24 16:10	11/04/24
L2464138-07	SDMT-3(1-2) 102924	SOIL	Not Specified	10/29/24 16:15	11/05/24
L2464138-08	SDMT-1(0.5-1) 102924	SOIL	Not Specified	10/29/24 16:35	11/04/24
L2464138-09	SDMT-1(1-2) 102924	SOIL	Not Specified	10/29/24 16:40	11/04/24
L2464138-10	SDMT-2(0.5-1) 102924	SOIL	Not Specified	10/29/24 16:25	11/04/24
L2464138-11	SDMT-2(1-2) 102924	SOIL	Not Specified	10/29/24 16:30	11/04/24
L2464138-12	WC-102924	SOIL	Not Specified	10/29/24 15:05	11/04/24

Project Name:	24K0186	**Lab Number:**	L2464138
Project Number:	24K0186	**Report Date:**	11/18/24

Case Narrative

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

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

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

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

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

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

Project Name: 24K0186 **Lab Number:** L2464138
Project Number: 24K0186 **Report Date:** 11/18/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2464138-02 through -05: The sample collection date was changed at the client's request.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 11/18/24

ORGANICS

PESTICIDES

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-01
Client ID: MW-4(5-6.5)102824
Sample Location: Not Specified

Date Collected: 10/28/24 09:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 16:47
Analyst: EJL
Percent Solids: 88%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 06:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3700	1170	1	A
MCPA	ND		ug/kg	3700	1050	1	A
Dalapon	ND		ug/kg	37.0	12.1	1	A
Dicamba	ND		ug/kg	37.0	6.22	1	A
Dichloroprop	ND		ug/kg	37.0	10.6	1	A
2,4-D	ND		ug/kg	185	11.7	1	A
2,4-DB	ND		ug/kg	185	9.52	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**205**	Q	30-150	A
DCAA	128		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-02
Client ID: DUP(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 00:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 17:05
Analyst: AKM
Percent Solids: 73%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4500	1420	1	A
MCPA	ND		ug/kg	4500	1270	1	A
Dalapon	ND		ug/kg	45.0	14.7	1	A
Dicamba	ND		ug/kg	45.0	7.56	1	A
Dichloroprop	ND		ug/kg	45.0	12.9	1	A
2,4-D	ND		ug/kg	225	14.2	1	A
2,4-DB	ND		ug/kg	225	11.6	1	A
2,4,5-T	ND		ug/kg	225	6.97	1	A
2,4,5-TP (Silvex)	ND		ug/kg	225	5.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	89		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-03
Client ID: DPT-2(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 08:10
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 17:41
Analyst: AKM
Percent Solids: 93%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3520	1110	1	A
MCPA	ND		ug/kg	3520	996.	1	A
Dalapon	ND		ug/kg	35.2	11.5	1	A
Dicamba	ND		ug/kg	35.2	5.92	1	A
Dichloroprop	ND		ug/kg	35.2	10.1	1	A
2,4-D	ND		ug/kg	176	11.1	1	A
2,4-DB	ND		ug/kg	176	9.05	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	89		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-04
Client ID: DPT-1(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 08:55
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 18:00
Analyst: AKM
Percent Solids: 94%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3440	1080	1	A
MCPA	ND		ug/kg	3440	974.	1	A
Dalapon	ND		ug/kg	34.4	11.2	1	A
Dicamba	ND		ug/kg	34.4	5.78	1	A
Dichloroprop	ND		ug/kg	34.4	9.88	1	A
2,4-D	ND		ug/kg	172	10.8	1	A
2,4-DB	ND		ug/kg	172	8.85	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	56		30-150	A
DCAA	53		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-05
Client ID: MW-1(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 08:45
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 18:18
Analyst: AKM
Percent Solids: 91%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 06:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3620	1140	1	A
MCPA	ND		ug/kg	3620	1020	1	A
Dalapon	ND		ug/kg	36.2	11.8	1	A
Dicamba	ND		ug/kg	36.2	6.09	1	A
Dichloroprop	ND		ug/kg	36.2	10.4	1	A
2,4-D	ND		ug/kg	181	11.4	1	A
2,4-DB	ND		ug/kg	181	9.31	1	A
2,4,5-T	ND		ug/kg	181	5.62	1	A
2,4,5-TP (Silvex)	ND		ug/kg	181	4.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	76		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-06
Client ID: SDMT-3(0.5-1) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:10
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 19:13
Analyst: AKM
Percent Solids: 76%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4340	1360	1	A
MCPA	ND		ug/kg	4340	1230	1	A
Dalapon	ND		ug/kg	43.4	14.2	1	A
Dicamba	ND		ug/kg	43.4	7.28	1	A
Dichloroprop	ND		ug/kg	43.4	12.4	1	A
2,4-D	ND		ug/kg	217	13.6	1	A
2,4-DB	ND		ug/kg	217	11.1	1	A
2,4,5-T	ND		ug/kg	217	6.72	1	A
2,4,5-TP (Silvex)	ND		ug/kg	217	5.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	84		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-07
Client ID: SDMT-3(1-2) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:15
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 19:31
Analyst: AKM
Percent Solids: 75%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4380	1380	1	A
MCPA	ND		ug/kg	4380	1240	1	A
Dalapon	ND		ug/kg	43.8	14.3	1	A
Dicamba	ND		ug/kg	43.8	7.35	1	A
Dichloroprop	ND		ug/kg	43.8	12.6	1	A
2,4-D	ND		ug/kg	219	13.8	1	A
2,4-DB	ND		ug/kg	219	11.2	1	A
2,4,5-T	ND		ug/kg	219	6.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	219	5.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	81		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-08
Client ID: SDMT-1(0.5-1) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:35
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 19:50
Analyst: AKM
Percent Solids: 63%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	5220	1650	1	A
MCPA	ND		ug/kg	5220	1480	1	A
Dalapon	ND		ug/kg	52.2	17.1	1	A
Dicamba	ND		ug/kg	52.2	8.78	1	A
Dichloroprop	ND		ug/kg	52.2	15.0	1	A
2,4-D	ND		ug/kg	261	16.5	1	A
2,4-DB	ND		ug/kg	261	13.4	1	A
2,4,5-T	ND		ug/kg	261	8.10	1	A
2,4,5-TP (Silvex)	ND		ug/kg	261	6.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	78		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-09
Client ID: SDMT-1(1-2) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:40
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 20:08
Analyst: AKM
Percent Solids: 64%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	5160	1620	1	A
MCPA	ND		ug/kg	5160	1460	1	A
Dalapon	ND		ug/kg	51.6	16.8	1	A
Dicamba	ND		ug/kg	51.6	8.66	1	A
Dichloroprop	ND		ug/kg	51.6	14.8	1	A
2,4-D	ND		ug/kg	258	16.2	1	A
2,4-DB	ND		ug/kg	258	13.2	1	A
2,4,5-T	ND		ug/kg	258	7.99	1	A
2,4,5-TP (Silvex)	ND		ug/kg	258	6.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	94		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-10
Client ID: SDMT-2(0.5-1) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:25
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 20:26
Analyst: AKM
Percent Solids: 83%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3960	1250	1	A
MCPA	ND		ug/kg	3960	1120	1	A
Dalapon	ND		ug/kg	39.6	12.9	1	A
Dicamba	ND		ug/kg	39.6	6.65	1	A
Dichloroprop	ND		ug/kg	39.6	11.4	1	A
2,4-D	ND		ug/kg	198	12.5	1	A
2,4-DB	ND		ug/kg	198	10.2	1	A
2,4,5-T	ND		ug/kg	198	6.14	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	84		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-11
Client ID: SDMT-2(1-2) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:30
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/13/24 20:44
Analyst: AKM
Percent Solids: 70%
Methylation Date: 11/12/24 03:50

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4700	1480	1	A
MCPA	ND		ug/kg	4700	1330	1	A
Dalapon	ND		ug/kg	47.0	15.4	1	A
Dicamba	ND		ug/kg	47.0	7.90	1	A
Dichloroprop	ND		ug/kg	47.0	13.5	1	A
2,4-D	ND		ug/kg	235	14.8	1	A
2,4-DB	ND		ug/kg	235	12.1	1	A
2,4,5-T	ND		ug/kg	235	7.29	1	A
2,4,5-TP (Silvex)	ND		ug/kg	235	6.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	80		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-12
Client ID: WC-102924
Sample Location: Not Specified

Date Collected: 10/29/24 15:05
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 11/10/24 14:30
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 11/08/24 14:21

TCLP/SPLP Ext. Date: 11/07/24 16:11
Methylation Date: 11/09/24 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	42		30-150	A
DCAA	36		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/10/24 13:34
Analyst: EJL
TCLP/SPLP Extraction Date: 11/07/24 16:11
Methylation Date: 11/09/24 17:32

Extraction Method: EPA 8151A
Extraction Date: 11/08/24 14:21

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 12 Batch: WG1995004-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	41		30-150	A
DCAA	34		30-150	B

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/12/24 07:24
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 11/11/24 05:08

Methylation Date: 11/12/24 03:50

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-11 Batch: WG1995607-1						
MCPP	ND		ug/kg	3250	1020	A
MCPA	ND		ug/kg	3250	920.	A
Dalapon	ND		ug/kg	32.5	10.6	A
Dicamba	ND		ug/kg	32.5	5.46	A
Dichloroprop	ND		ug/kg	32.5	9.33	A
2,4-D	ND		ug/kg	162	10.2	A
2,4-DB	ND		ug/kg	162	8.35	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	91		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K0186
Project Number: 24K0186
Lab Number: L2464138
Report Date: 11/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 12 Batch: WG1995004-2 WG1995004-3									
2,4-D	89		119		30-150	**29**	Q	25	A
2,4,5-TP (Silvex)	31		50		30-150	**47**	Q	25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	36		57		30-150	A
DCAA	**19**	Q	**29**	Q	30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K0186
Project Number: 24K0186
Lab Number: L2464138
Report Date: 11/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1995607-2 WG1995607-3									
MCPP	102		93		30-150	9		30	A
MCPA	88		88		30-150	0		30	A
Dalapon	62		71		30-150	14		30	A
Dicamba	86		89		30-150	3		30	A
Dichloroprop	88		88		30-150	0		30	A
2,4-D	87		89		30-150	2		30	A
2,4-DB	104		101		30-150	3		30	A
2,4,5-T	88		92		30-150	4		30	A
2,4,5-TP (Silvex)	85		87		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	84		86		30-150	A
DCAA	110		115		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 24K0186 ***Lab Number:*** L2464138

Project Number: 24K0186 ***Report Date:*** 11/18/24

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1995607-4 WG1995607-5 QC Sample: L2464138-05 Client ID: MW-1(SS) 102924													
MCPP	ND	17900	21800	122		21400	118		30-150	2		30	A
MCPA	ND	17900	15700	88		14900	82		30-150	5		30	A
Dalapon	ND	179	95.3	53		140	77		30-150	**38**	Q	30	A
Dicamba	ND	179	173	97		166	92		30-150	4		30	A
Dichloroprop	ND	179	183	102		166	92		30-150	10		30	A
2,4-D	ND	179	170J	95		166J	92		30-150	2		30	A
2,4-DB	ND	179	238	133		246	136		30-150	3		30	A
2,4,5-T	ND	179	176J	98		172J	95		30-150	2		30	A
2,4,5-TP (Silvex)	ND	179	164J	92		161J	89		30-150	2		30	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
DCAA	95		91		30-150	A
DCAA	105		97		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-01
Client ID: MW-4(5-6.5)102824
Sample Location: Not Specified

Date Collected: 10/28/24 09:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-02
Client ID: DUP(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 00:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.5		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-03
Client ID: DPT-2(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 08:10
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-04
Client ID: DPT-1(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 08:55
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.9		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-05
Client ID: MW-1(SS) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 08:45
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-06
Client ID: SDMT-3(0.5-1) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:10
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.3		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-07
Client ID: SDMT-3(1-2) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:15
Date Received: 11/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.9		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-08
Client ID: SDMT-1(0.5-1) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:35
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.7		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-09
Client ID: SDMT-1(1-2) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:40
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	63.6		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-10
Client ID: SDMT-2(0.5-1) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:25
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

SAMPLE RESULTS

Lab ID: L2464138-11
Client ID: SDMT-2(1-2) 102924
Sample Location: Not Specified

Date Collected: 10/29/24 16:30
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.1		%	0.100	NA	1	-	11/07/24 22:34	121,2540G	SJB

Lab Duplicate Analysis
Batch Quality Control

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1994630-1 QC Sample: L2464138-01 Client ID: MW-4(5-6.5)102824						
Solids, Total	87.8	86.4	%	2		20

Project Name: 24K0186
Project Number: 24K0186

Lab Number: L2464138
Report Date: 11/18/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2464138-01A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-02A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-03A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-04A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-05A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-05A1	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-06A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-07A	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		TS(7),HERB-8151(14)
L2464138-08A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-09A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-10A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-11A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		TS(7),HERB-8151(14)
L2464138-12A	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		-
L2464138-12W	Amber 1L unpreserved Extracts	A	NA		3.7	Y	Absent		HERB-TCLP*(14)
L2464138-12W9	Tumble Vessel	A	NA		3.7	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	24K0186	**Lab Number:**	L2464138
Project Number:	24K0186	**Report Date:**	11/18/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K0186	**Lab Number:**	L2464138
Project Number:	24K0186	**Report Date:**	11/18/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K0186	**Lab Number:**	L2464138
Project Number:	24K0186	**Report Date:**	11/18/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24K0186 **Lab Number:** L2464138

Project Number: 24K0186 **Report Date:** 11/18/24

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L2464138
CONTEST

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K0186

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

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

Analysis	Sample Name	Due		Expires	Comments
Sample ID: 24K0186-01	**MW-4(5-6.5)102824**	**Soil**	**Sampled:**	**10/28/24 09:00**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/11/24 09:00	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (B)					
Sample ID: 24K0186-04	**DUP(SS) 102924**	**Soil**	**Sampled:**	**10/27/24 00:00**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/10/24 00:00	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (C)					
Sample ID: 24K0186-05	**DPT-2(SS) 102924**	**Soil**	**Sampled:**	**10/27/24 08:10**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/10/24 08:10	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (C)					
Sample ID: 24K0186-06	**DPT-1(SS) 102924**	**Soil**	**Sampled:**	**10/27/24 08:55**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/10/24 08:55	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (C)					
Sample ID: 24K0186-07	**MW-1(SS) 102924**	**Soil**	**Sampled:**	**10/27/24 08:45**	**CAT B MS/MSD**
S-8151 DER TCL		12/02/24 14:00		11/10/24 08:45	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (S)	4 oz amber glass jar (T)				
Sample ID: 24K0186-09	**SDMT-3 (0.5-1) 102924**	**Soil**	**Sampled:**	**10/29/24 16:10**	**CAT B**
S-8151 DER TCL		12/02/24 14:00		11/12/24 16:10	CAT B Report to MDL
Containers Supplied:					
4 oz amber glass jar (C)					

11/04/24 1625		11-04-24	1625
Released By	Date	Received By	Date
11-04-24 1830			11/4/24 18:30
Released By	Date	Received By	Date

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K0186

L2464138

Analysis	Sample Name	Due	Expires	Comments
Sample ID: 24K0186-10	**SDMT-3 (1-2) 102924**	**Soil** **Sampled:**	**10/29/24 16:15**	**CAT B**
S-8151 DER TCL		12/02/24 14:00	11/12/24 16:15	CAT B Report to MDL
Containers Supplied:				
4 oz amber glass jar (C)				
Sample ID: 24K0186-13	**SDMT-1 (0.5-1) 102924**	**Soil** **Sampled:**	**10/29/24 16:35**	**CAT B**
S-8151 DER TCL		12/02/24 14:00	11/12/24 16:35	CAT B Report to MDL
Containers Supplied:				
4 oz amber glass jar (H)				
Sample ID: 24K0186-14	**SDMT-1 (1-2) 102924**	**Soil** **Sampled:**	**10/29/24 16:40**	**CAT B**
S-8151 DER TCL		12/02/24 14:00	11/12/24 16:40	CAT B Report to MDL
Containers Supplied:				
4 oz amber glass jar (H)				
Sample ID: 24K0186-15	**SDMT-2 (0.5-1) 102924**	**Soil** **Sampled:**	**10/29/24 16:25**	**CAT B**
S-8151 DER TCL		12/02/24 14:00	11/12/24 16:25	CAT B Report to MDL
Containers Supplied:				
4 oz amber glass jar (C)				
Sample ID: 24K0186-16	**SDMT-2 (1-2) 102924**	**Soil** **Sampled:**	**10/29/24 16:30**	**CAT B**
S-8151 DER TCL		12/02/24 14:00	11/12/24 16:30	CAT B Report to MDL
Containers Supplied:				
4 oz amber glass jar (C)				
Sample ID: 24K0186-17	**WC-102924**	**Soil** **Sampled:**	**10/29/24 15:05**	**CAT B**
S-8151 DER TCLP		12/02/24 14:00	11/12/24 15:05	
S-1311 TCLP EXT		12/02/24 14:00	11/12/24 15:05	
Containers Supplied:				
4 oz amber glass jar (C)				

Released By	Date	Received By	Date
	11/04/24 1625		11-04-24 1625
	11-04-24 1830		11/4/24 18:30

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24K0186

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CHAIN OF CUSTODY RECORD (New York)

Page 1 of 2 (3)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: Arcadis

Consultant Address: 201 Fuller Rd, Suite 701, Albany, NY 12203

Consultant Phone: 518-250-7334

Callout Project Name: Former Commander Oil Terminal – Off-Site

Project Location: Nassau

Callout Number: 151679

Site/Spill Number: C130244A

Project Manager: Steeven Imbagnigya

Pace Analytical Quote Name/Number: C100913

Invoice Recipient: NYS DEC

Sampled By: MT / AG

Requested Turnaround Time
- DEC Standard 30-calendar day [✓]
- Due Date:

Rush (Prior Approval Required)
- 1-Day [ ] 2-Day [ ] 3-Day [ ]
- 4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
- Format: PDF [✓] EXCEL [✓]
- Other:
- CLP Like (Level 4) Data Pkg Required: [✓]
- Email To: Stefano.Bagnato@arcadis.com
- Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8151 Herbicide	8081 Pesticide	TAL Total Metals + TCLP + SPLP + RCRA 8 Metals	PFAS 537 ID	PFAS 1633	1,4-Dioxane SIM
1	MW-4(5-65)102424	10/24	0900	AC X	✓	S	U			X		X	X	X			
2	FB 102824	10/28	1420		✓	W	U								X		
3	EB 102924	10/29	0740		✓	W	U								X		
4	DUP(55)102924	10/29	—	AC X	✓	S	U	X	X	X		X	X	X	X	X	
5	DPT-2(55)102924	10/24	1610	AC ✓	✓	S	U	X	X	X		X	X	X	X	X	
6	DPT-1(55)102924	10/29	~~0855~~ 0855	AC ✓	✓	S	U	X	X	X		X	X	X	X	X	
7	MW-1(55)102924	10/29	~~0845~~ 0845	AC ✓	✓	S	U	X	X	X		X	X	X	X	X	
8	Trip Blank 102924	10/28/24	—		✓	W	U	X									
9	SDMT-3(0.5-1)102924	10/29	1610	AC ✓	✓	S	U	X	X	X		X	X	X	X	X	
10	SDMT-3(1-2)102924	10/29	1615	AC ✓	✓	S	U	X	X	X		X	X	X	X	X	

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

	18	6	7	7	7	12	6
# of Containers							
[2] Preservation Code	*	I	I	I	I	I	I
[3] Container Code	V	A	A	A	A	P	A

Dissolved Metals Samples
- [ ] Field Filtered
- [ ] Lab to Filter

Orthophosphate Samples
- [ ] Field Filtered
- [ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: * Soil 8260 preserved with MeOH. GW 8260 preserved with H
MS/MSD collected at MW-1(55)102924

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	10/30/24 13:14
Received by: (signature) Pace	Date/Time: 10/30 13:19
Relinquished by: (signature)	Date/Time: 10/30 13:41
Received by: (signature) 4.1/2.9/4.7 4.3	Date/Time: 10/31/24 738
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
- [ ] AWQ STDS
- [ ] NYC Sewer Discharge
- [ ] Part 360 GW (Landfill)
- [ ] NY Restricted Use
- [ ] NY Unrestricted Use
- [✓] NY Part 375
- [✓] NY TOGS
- [ ] NY CP-51
- Other:

Deliverables
- [ ] Enhanced Data Package
- [✓] NYSDEC EQuIS EDD
- [ ] EQuIS (Standard) EDD
- [ ] NY Regulatory EDD
- [ ] NY Regs Hits-Only EDD
- Other:

Project Entity
- [ ] Government
- [ ] Federal
- [ ] City
- [ ] Municipality
- [ ] 21 J
- [ ] Brownfield
- [ ] MWRA
- [ ] School
- [ ] MBTA
- [ ] WRTA

Other
- [ ] Chromatogram
- [ ] AIHA-LAP,LLC

PCB ONLY
- [ ] Soxhlet
- [ ] Non Soxhlet

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24110186

https://www.pacelabs.com/

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CHAIN OF CUSTODY RECORD (New York)

Page 2 of ~~2~~ 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis
Consultant Address:	201 Fuller Rd, Suite 201, Albany, NY 12203
Consultant Phone:	518-250-7334
Callout Project Name:	Former Commander Oil Terminal - Off-Site
Project Location:	Nassau
Callout Number:	151674
Site/Spill Number:	C130144A
Project Manager:	Steaven Imbagliazzo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYSDEC
Sampled By:	MT/AG

Requested Turnaround Time
DEC Standard 30-calendar day ☑
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like (Level 4) Data Pkg Required: ☑
Email To: Stefan.Bugnato@Arcadis.com
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticide	8151 Herbicide	TAL Total Metals	TCLP RCRA 8 Metals	PFAS 1633	PFAS 537 ID	1,4-Dioxane SIM	TCLP VOCs	TCLP SVOCs	TCLP pesticides, herbicides, metals	# of Containers	Preservation Code	Container Code
	~~SDMT-1-102924~~ (6)	~~10/29~~				S	U															4	I	V
	~~SDMT-2-102924~~ (7)	~~10/29~~				S	U															4	I	V
11	SW-1-102924	10/29	1645		✓	W	U	X	X					X	X	X						3	I	V
12	SW-2-102924	10/29	1630		✓	W	U	X	X					X	X	X						1	I	V
13	SDMT-1(05-1)102924	10/29	1635	AG	✓	S	U	X	X		X	X	X	X	X	X						1	I	V
14	SDMT-1(1-2)102924	10/29	1640	AG	✓	S	U	X	X		X	X	X	X	X	X						1	I	V
15	SDMT-2(05-1)102924	10/29	1625	AG	✓	S	U	X	X		X	X	X	X	X	X						1	I	V
16	SDMT-2(1-2)102924	10/29	1630	AG	✓	S	U	X	X		X	X	X	X	X	X						1	I	V
17	WC-102924	10/29	1505	AG	✓	S	U												X	X	X	1	I	V
18	SW-3-102924	10/29	1620		✓	W	U	X	X					X	X	X						1	I	V

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
* Soil 8260 preserved with M&B. GW 8260 preserved with H.
MS/MSD collected at SW-2-102924.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	10/30/24 13:14
Received by: (signature) Pace	Date/Time: 10/30 13:19
Relinquished by: (signature)	Date/Time: 10/30 13:41
Received by: (signature) 4.11 2.4/4.3	Date/Time: 10/31/24 725
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☑ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☑ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Serial_No:1118 Table of Contents

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24K0186 https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

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CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC | Consultant: Arcadis

Consultant Address: 201 Fuller Rd, Suite 201, Albany, NY 12203

Consultant Phone: 518-250-7334

Callout Project Name: Former Commander 01 Terminal - OA-site

Project Location: Nassau

Callout Number: 151674

Site/Spill Number: C130244A

Project Manager: Steeven Imbaquingo

Pace Analytical Quote Name/Number: C100913

Invoice Recipient: NYS DEC

Sampled By: MT/AG

Requested Turnaround Time
- DEC Standard 30-calendar day [✓]
- Due Date:

Rush (Prior Approval Required)
- 1-Day [ ] 2-Day [ ] 3-Day [ ]
- 4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
- Format: PDF [✓] EXCEL [✓]
- Other:
- CLP Like (Level 4) Data Pkg Required: [✓]
- Email To: Steven.Bagamo@Arcadis.com
- Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8081 Pesticide / 8151 Herbicide	TAL Total Metals	PFAS 1633 / PFAS 537 ID	# of Containers	Preservation Code	Container Code
								3	2	2		1	3			
								H	I	I		I/N	I			
								V	A	A		P	P			
19	DUP(SW)102924	10/24	—		✓	W	U	X	X	X		X	X			

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
- [ ] Field Filtered
- [ ] Lab to Filter

Orthophosphate Samples
- [ ] Field Filtered
- [ ] Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	10/30/24 1314
Received by: (signature) Pace	10/30 13:19
Relinquished by: (signature)	10/30 13:41
Received by: (signature)	10/31 7:35
Relinquished by: (signature)	
Received by: (signature)	

Program & Regulatory Information
- [ ] AWQ STDS
- [ ] NYC Sewer Discharge
- [ ] Part 360 GW (Landfill)
- [ ] NY Restricted Use
- [ ] NY Unrestricted Use
- [ ] NY Part 375
- [✓] NY TOGS
- [ ] NY CP-51

Other:

Deliverables
- [ ] Enhanced Data Package
- [✓] NYSDEC EQuIS EDD
- [ ] EQuIS (Standard) EDD
- [ ] NY Regulatory EDD
- [ ] NY Regs Hits-Only EDD

Other:

Project Entity
- [ ] Government
- [ ] Federal
- [ ] City
- [ ] Municipality
- [ ] 21 J
- [ ] Brownfield
- [ ] MWRA
- [ ] School
- [ ] MBTA
- [ ] WRTA

Other
- [ ] Chromatogram
- [ ] AIHA-LAP,LLC

PCB ONLY
- [ ] Soxhlet
- [ ] Non Soxhlet

Pace Analytical Services, LLC - East Longmeadow, Ma

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

December 18, 2024

Steeven Imbaquingo
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Oyster Bay, NY
Client Job Number:
Project Number: C130244A
Laboratory Work Order Number: 24K1058

Enclosed are results of analyses for samples as received by the laboratory on November 13, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 12/18/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1058

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

PROJECT LOCATION: Oyster Bay, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1S	24K1058-01	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7196A	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
MW-1M	24K1058-02	Ground Water		SW-846 8260D	
MW-1D	24K1058-03	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
MW-2S	24K1058-04	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
MW-2M	24K1058-05	Ground Water		SW-846 8260D	
MW-2D	24K1058-06	Ground Water		SW-846 8260D	
MW-3S	24K1058-07	Ground Water		Draft Method 1633	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
MW-3M	24K1058-08	Ground Water		SW-846 8260D	
MW-3D	24K1058-09	Ground Water		SW-846 8260D	
MW-4S	24K1058-10	Ground Water		SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Steeven Imbaquingo

REPORT DATE: 12/18/2024

PURCHASE ORDER NUMBER: 151674

PROJECT NUMBER: C130244A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K1058

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

PROJECT LOCATION: Oyster Bay, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-4M	24K1058-11	Ground Water		SW-846 8260D	
MW-4D	24K1058-12	Ground Water		SW-846 8260D	
DUP-111224	24K1058-13	Ground Water		SW-846 7196A	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8260D	
				SW-846 9014	
Trip Blank-111124	24K1058-14	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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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:

13C2-4:2FTS
24K1058-01RE1[MW-1S], 24K1058-07[MW-3S], S115116-CCB3

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS
24K1058-01RE1[MW-1S], 24K1058-07[MW-3S], S115116-CCB3

PF-18

Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C2-6:2FTS
24K1058-01RE1[MW-1S]

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24K1058-01RE1[MW-1S]

PF-22

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

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
24K1058-07[MW-3S]

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorooctanesulfonic acid (PFOS)
24K1058-03RE1[MW-1D]

SW-846 6010D

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Calcium
24K1058-01[MW-1S], B392369-PS1

Sodium
24K1058-01[MW-1S], B392369-MS3, B392369-MSD3

SW-846 7196A

Qualifications:

H-10

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
24K1058-01[MW-1S], 24K1058-13[DUP-111224], B392500-MS1, B392500-MSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
24K1058-01[MW-1S], B392500-MS1, B392500-MSD1

SW-846 8081B

Qualifications:

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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:

4,4'-DDT

B392245-BLK1, B392245-BS1, B392245-BSD1, B392245-MS1, B392245-MSD1

Methoxychlor

B392245-BLK1, B392245-BS1, B392245-BSD1, B392245-MS1, B392245-MSD1

SW-846 8260D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Acetone

24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

L-07

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B392239-BSD1

Carbon Tetrachloride

B392239-BSD1

Trichlorofluoromethane (Freon 11)

B392239-BSD1

MS-15

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B392239-MS1, B392239-MSD1

Naphthalene

B392239-MS1, B392239-MSD1

R-05

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

1,2,4-Trichlorobenzene

24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

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

24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

Naphthalene

24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

tert-Amyl Alcohol (TAA)

24K1058-01[MW-1S], 24K1058-12[MW-4D], 24K1058-13[DUP-111224], 24K1058-14[Trip Blank-111124], B392239-BLK1, B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S114137-CCV1

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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:

1,1-Dichloroethylene
24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

Acetone
24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-CCV1

Methylene Chloride
24K1058-02[MW-1M], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-06[MW-2D], 24K1058-07[MW-3S], 24K1058-08[MW-3M], 24K1058-09[MW-3D], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BLK1, B392238-BS1, B392238-BSD1, S113983-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:

Benzene
24K1058-02[MW-1M], 24K1058-04[MW-2S], 24K1058-05[MW-2M], 24K1058-10[MW-4S], 24K1058-11[MW-4M], B392238-BS1, B392238-BSD1, S113983-CCV1

Tetrachloroethylene
24K1058-12[MW-4D], 24K1058-13[DUP-111224]

V-20

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B392238-BS1, B392238-BSD1, B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S113983-CCV1, S114137-CCV1

1,2,4-Trichlorobenzene
B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S114137-CCV1

Bromoform
B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S114137-CCV1

Carbon Tetrachloride
B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S114137-CCV1

Naphthalene
B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S114137-CCV1

Tetrachloroethylene
B392239-BS1, B392239-BSD1, B392239-MS1, B392239-MSD1, S114137-CCV1

SW-846 8270E

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Caprolactam
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1

L-07A

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B392242-BS1

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R-05

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

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
B392242-BS1, B392242-BSD1

2,4,5-Trichlorophenol
B392242-BLK1, B392242-BS1, B392242-BSD1

2,4-Dichlorophenol
B392242-BLK1, B392242-BS1, B392242-BSD1

2,4-Dinitrophenol
B392242-BSD1

2-Chlorophenol
B392242-BS1, B392242-BSD1

2-Nitrophenol
B392242-BLK1, B392242-BS1, B392242-BSD1

4-Nitrophenol
B392242-BLK1, B392242-BS1, B392242-BSD1

Phenol
B392242-BLK1, B392242-BS1, B392242-BSD1

V-04

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1, S114460-CCV1

Dibenz(a,h)anthracene
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1, S114460-CCV1

Di-n-octylphthalate
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1, S114460-CCV1

Indeno(1,2,3-cd)pyrene
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1, S114460-CCV1

V-05

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

Analyte & Samples(s) Qualified:

4-Nitroaniline
B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1

Aniline
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1, S114460-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:

2,3,4,6-Tetrachlorophenol
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], S114460-CCV2

Caprolactam
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], S114460-CCV2

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
24K1058-01[MW-1S], 24K1058-03[MW-1D], 24K1058-04[MW-2S], 24K1058-07[MW-3S], 24K1058-10[MW-4S], B392242-BLK1, B392242-BS1, B392242-BSD1, S114153-CCV1, S114460-CCV1, S114725-ICV1

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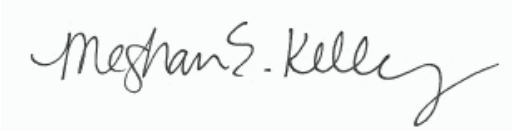
The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies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



Meghan E. Kelley
Reporting Specialist

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Amyl Alcohol (TAA)	6.8	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Benzene	19	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Butyl Alcohol (TBA)	69	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
n-Butylbenzene	1.5	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
sec-Butylbenzene	2.6	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Butylbenzene	0.79	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
cis-1,2-Dichloroethylene	0.47	1.0	0.20	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Diisopropyl Ether (DIPE)	0.29	0.50	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Isopropylbenzene (Cumene)	3.8	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
p-Isopropyltoluene (p-Cymene)	14	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	16	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Methyl Cyclohexane	1.9	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
n-Propylbenzene	3.2	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Toluene	0.46	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Vinyl Chloride	0.76	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
m+p Xylene	1.5	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
o-Xylene	0.91	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:31	EEH
Xylenes (total)	2.4	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		11/18/24 13:31
Toluene-d8	101	70-130		11/18/24 13:31
4-Bromofluorobenzene	103	70-130		11/18/24 13:31

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.4	µg/L	1	V-06	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzaldehyde	ND	9.7	0.70	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Biphenyl	ND	19	0.89	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Caprolactam	ND	9.7	0.69	µg/L	1	V-06, L-04	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Acenaphthene	2.8	4.8	0.76	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Acenaphthylene	ND	4.8	0.62	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Acetophenone	ND	9.7	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Aniline	ND	19	8.7	µg/L	1	V-05	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(a)pyrene	ND	4.8	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Bis(2-chloroethoxy)methane	ND	9.7	0.56	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Bis(2-chloroethyl)ether	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.7	0.72	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.7	0.31	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Bromophenylphenylether	ND	9.7	0.69	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Butylbenzylphthalate	ND	9.7	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Carbazole	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Chloroaniline	ND	9.7	5.0	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Chloro-3-methylphenol	ND	9.7	0.61	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Chloronaphthalene	ND	9.7	0.78	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Chlorophenol	ND	9.7	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Chlorophenylphenylether	ND	9.7	0.84	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Dibenz(a,h)anthracene	ND	4.8	0.46	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Dibenzofuran	1.1	4.8	0.83	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Di-n-butylphthalate	ND	9.7	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
3,3-Dichlorobenzidine	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dichlorophenol	ND	9.7	0.45	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Diethylphthalate	ND	9.7	0.54	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dimethylphenol	ND	9.7	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Dimethylphthalate	ND	9.7	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dinitrophenol	ND	9.7	1.3	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4-Dinitrotoluene	ND	9.7	0.34	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,6-Dinitrotoluene	ND	9.7	0.53	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Di-n-octylphthalate	ND	9.7	0.32	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Fluorene	1.8	4.8	0.73	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Hexachlorobenzene	ND	9.7	0.70	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Hexachlorocyclopentadiene	ND	9.7	2.7	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Hexachloroethane	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.46	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Isophorone	ND	9.7	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
1-Methylnaphthalene	15	4.8	0.95	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Methylnaphthalene	ND	4.8	0.90	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Methylphenol	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
3/4-Methylphenol	ND	9.7	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Naphthalene	ND	4.8	0.87	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Nitroaniline	ND	9.7	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
3-Nitroaniline	ND	9.7	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Nitroaniline	ND	9.7	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Nitrobenzene	ND	9.7	0.65	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2-Nitrophenol	ND	9.7	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
4-Nitrophenol	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.7	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
N-Nitrosodi-n-propylamine	ND	9.7	0.63	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Pentachlorophenol	ND	9.7	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Phenanthrene	ND	4.8	0.69	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Phenol	ND	9.7	0.57	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Pyrene	ND	4.8	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
Pyridine	ND	19	5.0	µg/L	1	V-34	SW-846 8270E	11/14/24	11/22/24 19:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.7	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4,5-Trichlorophenol	ND	9.7	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL
2,4,6-Trichlorophenol	ND	9.7	0.36	µg/L	1		SW-846 8270E	11/14/24	11/22/24 19:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.5	15-110		11/22/24 19:45
Phenol-d6	32.3	15-110		11/22/24 19:45
Nitrobenzene-d5	83.1	30-130		11/22/24 19:45
2-Fluorobiphenyl	72.7	30-130		11/22/24 19:45
2,4,6-Tribromophenol	83.2	15-110		11/22/24 19:45
p-Terphenyl-d14	86.9	30-130		11/22/24 19:45

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.39	0.20	0.033	µg/L	1		SW-846 8270E	11/14/24	11/18/24 16:54	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	24.8	15-110		11/18/24 16:54

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	82	6.0	0.75	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoropentanoic acid (PFPeA)	160	3.0	0.42	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorohexanoic acid (PFHxA)	51	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoroheptanoic acid (PFHpA)	30	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorooctanoic acid (PFOA)	27	1.5	0.39	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorononanoic acid (PFNA)	8.8	1.5	0.61	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorodecanoic acid (PFDA)	1.9	1.5	0.36	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorobutanesulfonic acid (PFBS)	1.9	1.5	0.32	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorohexanesulfonic acid (PFHxS)	1.4	1.5	0.58	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorooctanesulfonic acid (PFOS)	18	1.5	0.37	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	1.2	ng/L	1	PF-17	Draft Method 1633	12/9/24	12/11/24 16:20	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	18	6.0	2.8	ng/L	1	PF-18	Draft Method 1633	12/9/24	12/11/24 16:20	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	3.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	1.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	0.79	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
9Cl-PF3ONS (F53B Minor)	ND	6.0	0.87	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
11Cl-PF3OUdS (F53B Major)	ND	6.0	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.4	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	0.40	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:20	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	83.2		5-130		12/11/24 16:20
13C5-PFPeA	80.1		40-130		12/11/24 16:20
13C5-PFHxA	87.6		40-130		12/11/24 16:20
13C4-PFHpA	90.6		40-130		12/11/24 16:20
13C8-PFOA	94.7		40-130		12/11/24 16:20
13C9-PFNA	82.4		40-130		12/11/24 16:20
13C6-PFDA	87.5		40-130		12/11/24 16:20
13C7-PFUnA	85.8		30-130		12/11/24 16:20
13C2-PFDoA	76.2		10-130		12/11/24 16:20
13C2-PFTeDA	70.5		10-130		12/11/24 16:20
13C3-PFBS	82.6		40-135		12/11/24 16:20
13C3-PFHxS	87.7		40-130		12/11/24 16:20
13C8-PFOS	83.1		40-130		12/11/24 16:20
13C2-4:2FTS	**264**	*	40-200	PF-17	12/11/24 16:20
13C2-6:2FTS	**207**	*	40-200	PF-18	12/11/24 16:20
13C2-8:2FTS	131		40-300		12/11/24 16:20
13C8-PFOSA	82.6		40-130		12/11/24 16:20
D3-NMeFOSA	67.6		10-130		12/11/24 16:20
D5-NEtFOSA	63.7		10-130		12/11/24 16:20
D3-NMeFOSAA	99.0		40-170		12/11/24 16:20
D5-NEtFOSAA	107		25-135		12/11/24 16:20
D7-NMeFOSE	66.6		10-130		12/11/24 16:20
D9-NEtFOSE	63.1		10-130		12/11/24 16:20
13C3-HFPO-DA	85.4		40-130		12/11/24 16:20

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
gamma-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Aldrin [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
alpha-BHC [2]	ND	0.049	0.022	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
beta-BHC [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
delta-BHC [2]	ND	0.049	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
gamma-BHC (Lindane) [2]	ND	0.029	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
4,4'-DDD [2]	ND	0.039	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
4,4'-DDE [2]	ND	0.039	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
4,4'-DDT [2]	ND	0.039	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Dieldrin [2]	ND	0.0020	0.00098	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endosulfan I [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endosulfan II [2]	ND	0.078	0.013	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endosulfan sulfate [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endrin [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endrin aldehyde [2]	ND	0.078	0.020	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Endrin ketone [2]	ND	0.078	0.018	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Heptachlor [2]	ND	0.049	0.0046	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Heptachlor epoxide [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Methoxychlor [2]	ND	0.49	0.078	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG
Toxaphene [2]	ND	0.98	0.41	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:09	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		11/19/24 17:09
Decachlorobiphenyl [2]	53.0	30-150		11/19/24 17:09
Tetrachloro-m-xylene [1]	80.7	30-150		11/19/24 17:09
Tetrachloro-m-xylene [2]	82.7	30-150		11/19/24 17:09

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1221 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1232 [1]	ND	0.20	0.092	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1242 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1248 [1]	ND	0.20	0.092	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1260 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1262 [1]	ND	0.20	0.081	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM
Aroclor-1268 [1]	ND	0.20	0.074	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:33	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.8	30-150		11/19/24 14:33
Decachlorobiphenyl [2]	58.2	30-150		11/19/24 14:33
Tetrachloro-m-xylene [1]	83.6	30-150		11/19/24 14:33
Tetrachloro-m-xylene [2]	89.3	30-150		11/19/24 14:33

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.056	0.050	0.025	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:27	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Barium	0.44	0.050	0.0098	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Calcium	180	0.50	0.21	mg/L	1	MS-19	SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Iron	29	0.050	0.036	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Magnesium	20	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Manganese	0.84	0.010	0.0018	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/26/24	11/27/24 3:38	MJH
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Potassium	12	2.0	0.47	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:27	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Sodium	740	20	3.8	mg/L	10	MS-19	SW-846 6010D	11/15/24	11/23/24 16:21	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Vanadium	0.0087	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/15/24	11/22/24 14:39	HNN
Zinc	ND	0.010	0.0080	mg/L	1		SW-846 6010D	11/15/24	11/22/24 14:39	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1S | Sampled: 11/12/2024 13:10

Sample ID: 24K1058-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET
Hexavalent Chromium	ND	0.0040	0.0029	mg/L	1	MS-07A, H-10	SW-846 7196A	11/18/24	11/18/24 13:17	NRH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1M | Sampled: 11/11/2024 14:50

Sample ID: 24K1058-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	V-05, L-04	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Benzene	11	1.0	0.14	µg/L	1	V-06	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Butyl Alcohol (TBA)	52	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
n-Butylbenzene	0.56	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
sec-Butylbenzene	1.0	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Butylbenzene	0.32	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
cis-1,2-Dichloroethylene	0.57	1.0	0.20	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Diisopropyl Ether (DIPE)	0.21	0.50	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Isopropylbenzene (Cumene)	1.7	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
p-Isopropyltoluene (p-Cymene)	3.2	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1M | Sampled: 11/11/2024 14:50

Sample ID: 24K1058-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	12	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Methyl Cyclohexane	1.7	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
n-Propylbenzene	1.5	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Tetrachloroethylene	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Toluene	0.16	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Vinyl Chloride	1.4	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
m+p Xylene	0.51	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
o-Xylene	0.44	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 16:02	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 16:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.1	70-130		11/15/24 16:02
Toluene-d8	100	70-130		11/15/24 16:02
4-Bromofluorobenzene	102	70-130		11/15/24 16:02

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chloroform	0.50	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1-Dichloroethane	0.19	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Tetrachloroethylene	0.41	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.6	70-130		11/15/24 11:22
Toluene-d8	101	70-130		11/15/24 11:22
4-Bromofluorobenzene	106	70-130		11/15/24 11:22

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	5.7	µg/L	1	V-06	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Atrazine	ND	20	1.7	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzaldehyde	ND	10	0.73	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Biphenyl	ND	20	0.93	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Caprolactam	ND	10	0.72	µg/L	1	L-04, V-06	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Acenaphthene	ND	5.0	0.79	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Acenaphthylene	ND	5.0	0.64	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Acetophenone	ND	10	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Aniline	ND	20	9.0	µg/L	1	V-05	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Anthracene	ND	5.0	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(a)anthracene	ND	5.0	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(a)pyrene	ND	5.0	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(b)fluoranthene	ND	5.0	0.33	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(g,h,i)perylene	ND	5.0	0.53	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Benzo(k)fluoranthene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Bis(2-chloroethoxy)methane	ND	10	0.58	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Bis(2-chloroethyl)ether	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,2'-oxybis(1-Chloropropane)	ND	10	0.76	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.33	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Bromophenylphenylether	ND	10	0.72	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Carbazole	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Chloroaniline	ND	10	5.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Chloro-3-methylphenol	ND	10	0.64	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Chloronaphthalene	ND	10	0.82	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Chlorophenol	ND	10	0.41	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Chlorophenylphenylether	ND	10	0.88	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Chrysene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Dibenz(a,h)anthracene	ND	5.0	0.48	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Dibenzofuran	ND	5.0	0.86	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Di-n-butylphthalate	ND	10	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
3,3-Dichlorobenzidine	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dichlorophenol	ND	10	0.47	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Diethylphthalate	ND	10	0.56	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dimethylphenol	ND	10	0.41	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Dimethylphthalate	ND	10	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.3	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dinitrophenol	ND	10	1.3	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4-Dinitrotoluene	ND	10	0.35	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,6-Dinitrotoluene	ND	10	0.56	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Fluoranthene	ND	5.0	0.57	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Fluorene	ND	5.0	0.77	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Hexachlorobenzene	ND	10	0.73	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	10	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Hexachlorocyclopentadiene	ND	10	2.9	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Hexachloroethane	ND	10	1.3	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	0.48	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Isophorone	ND	10	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
1-Methylnaphthalene	ND	5.0	0.99	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Methylnaphthalene	ND	5.0	0.94	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Methylphenol	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
3/4-Methylphenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Naphthalene	ND	5.0	0.91	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Nitroaniline	ND	10	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
3-Nitroaniline	ND	10	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Nitroaniline	ND	10	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Nitrobenzene	ND	10	0.68	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2-Nitrophenol	ND	10	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
N-Nitrosodi-n-propylamine	ND	10	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Pentachlorophenol	ND	10	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Phenanthrene	ND	5.0	0.72	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Phenol	ND	10	0.60	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Pyrene	ND	5.0	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
Pyridine	ND	20	5.2	µg/L	1	V-34	SW-846 8270E	11/14/24	11/22/24 20:06	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4,5-Trichlorophenol	ND	10	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.2	15-110		11/22/24 20:06
Phenol-d6	28.8	15-110		11/22/24 20:06
Nitrobenzene-d5	78.8	30-130		11/22/24 20:06
2-Fluorobiphenyl	72.2	30-130		11/22/24 20:06
2,4,6-Tribromophenol	77.9	15-110		11/22/24 20:06
p-Terphenyl-d14	90.3	30-130		11/22/24 20:06

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.25	0.19	0.031	µg/L	1		SW-846 8270E	11/14/24	11/21/24 0:13	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	21.8	15-110		11/21/24 0:13	

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	12	6.1	0.77	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoropentanoic acid (PFPeA)	10	3.1	0.43	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorohexanoic acid (PFHxA)	10	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoroheptanoic acid (PFHpA)	5.9	1.5	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorooctanoic acid (PFOA)	12	1.5	0.40	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorobutanesulfonic acid (PFBS)	0.70	1.5	0.33	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoropentanesulfonic acid (PFPeS)	0.66	1.5	0.45	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.5	0.59	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.81	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorooctanesulfonic acid (PFOS)	2.2	1.5	0.38	ng/L	1	PF-23	Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.48	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	2.9	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	3.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.53	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.1	0.81	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
9Cl-PF3ONS (F53B Minor)	ND	6.1	0.90	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
11Cl-PF3OUdS (F53B Major)	ND	6.1	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	6.7	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	8.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.54	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.41	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:30	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	77.2	5-130		12/11/24 16:30
13C5-PFPeA	73.1	40-130		12/11/24 16:30
13C5-PFHxA	75.7	40-130		12/11/24 16:30
13C4-PFHpA	73.0	40-130		12/11/24 16:30
13C8-PFOA	81.7	40-130		12/11/24 16:30
13C9-PFNA	76.2	40-130		12/11/24 16:30
13C6-PFDA	75.3	40-130		12/11/24 16:30
13C7-PFUnA	70.7	30-130		12/11/24 16:30
13C2-PFDoA	69.9	10-130		12/11/24 16:30
13C2-PFTeDA	66.9	10-130		12/11/24 16:30
13C3-PFBS	74.8	40-135		12/11/24 16:30
13C3-PFHxS	73.1	40-130		12/11/24 16:30
13C8-PFOS	73.2	40-130		12/11/24 16:30
13C2-4:2FTS	75.3	40-200		12/11/24 16:30
13C2-6:2FTS	69.1	40-200		12/11/24 16:30
13C2-8:2FTS	67.8	40-300		12/11/24 16:30
13C8-PFOSA	66.2	40-130		12/11/24 16:30
D3-NMeFOSA	54.7	10-130		12/11/24 16:30
D5-NEtFOSA	56.1	10-130		12/11/24 16:30
D3-NMeFOSAA	80.1	40-170		12/11/24 16:30
D5-NEtFOSAA	82.2	25-135		12/11/24 16:30
D7-NMeFOSE	56.0	10-130		12/11/24 16:30
D9-NEtFOSE	55.5	10-130		12/11/24 16:30
13C3-HFPO-DA	84.4	40-130		12/11/24 16:30

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
gamma-Chlordane [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Aldrin [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
alpha-BHC [2]	ND	0.049	0.021	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
beta-BHC [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
delta-BHC [2]	ND	0.049	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
gamma-BHC (Lindane) [2]	ND	0.029	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
4,4'-DDD [2]	ND	0.039	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
4,4'-DDE [2]	ND	0.039	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
4,4'-DDT [2]	ND	0.039	0.0040	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Dieldrin [2]	ND	0.0019	0.00097	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endosulfan I [2]	ND	0.049	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endosulfan II [2]	ND	0.078	0.013	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endosulfan sulfate [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endrin [2]	ND	0.078	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endrin aldehyde [2]	ND	0.078	0.020	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Endrin ketone [2]	ND	0.078	0.018	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Heptachlor [2]	ND	0.049	0.0046	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Heptachlor epoxide [2]	ND	0.049	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Methoxychlor [2]	ND	0.49	0.077	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG
Toxaphene [2]	ND	0.97	0.41	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		11/19/24 17:21
Decachlorobiphenyl [2]	97.4	30-150		11/19/24 17:21
Tetrachloro-m-xylene [1]	85.1	30-150		11/19/24 17:21
Tetrachloro-m-xylene [2]	89.3	30-150		11/19/24 17:21

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1221 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1232 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1248 [1]	ND	0.19	0.091	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1262 [1]	ND	0.19	0.080	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM
Aroclor-1268 [1]	ND	0.19	0.074	µg/L	1		SW-846 8082A	11/14/24	11/19/24 14:50	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.9	30-150		11/19/24 14:50
Decachlorobiphenyl [2]	104	30-150		11/19/24 14:50
Tetrachloro-m-xylene [1]	81.5	30-150		11/19/24 14:50
Tetrachloro-m-xylene [2]	86.1	30-150		11/19/24 14:50

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.31	0.050	0.025	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:33	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Arsenic	ND	0.010	0.0050	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Barium	0.024	0.050	0.0098	mg/L	1	J	SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Calcium	23	0.50	0.21	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Cobalt	ND	0.010	0.0027	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Iron	0.56	0.050	0.036	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Magnesium	7.3	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Manganese	0.17	0.010	0.0018	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/26/24	11/27/24 3:40	MJH
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Potassium	2.1	2.0	0.47	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:33	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Sodium	23	2.0	0.38	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Vanadium	ND	0.010	0.0054	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN
Zinc	0.021	0.010	0.0080	mg/L	1		SW-846 6010D	11/15/24	11/22/24 15:54	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-1D | Sampled: 11/12/2024 10:40

Sample ID: 24K1058-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Amyl Alcohol (TAA)	4.6	5.0	1.3	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Benzene	7.0	1.0	0.14	µg/L	1	V-06	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
n-Butylbenzene	0.32	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
sec-Butylbenzene	0.66	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Cyclohexane	3.5	5.0	1.8	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
cis-1,2-Dichloroethylene	1.1	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Ethylbenzene	0.19	1.0	0.14	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Isopropylbenzene (Cumene)	0.99	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	3.9	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Methyl Cyclohexane	1.8	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
n-Propylbenzene	0.64	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Toluene	0.38	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Vinyl Chloride	1.4	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
m+p Xylene	0.66	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
o-Xylene	0.34	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 11:47	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 11:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.1	70-130		11/15/24 11:47
Toluene-d8	102	70-130		11/15/24 11:47
4-Bromofluorobenzene	105	70-130		11/15/24 11:47

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.3	µg/L	1	V-06	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Caprolactam	ND	9.4	0.67	µg/L	1	L-04, V-06	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Acetophenone	ND	9.4	0.47	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Aniline	ND	19	8.4	µg/L	1	V-05	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.4	0.71	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.30	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Carbazole	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Chloro-3-methylphenol	ND	9.4	0.60	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Chloronaphthalene	ND	9.4	0.76	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Chlorophenol	ND	9.4	0.39	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Diethylphthalate	ND	9.4	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dimethylphenol	ND	9.4	0.39	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Fluorene	ND	4.7	0.71	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Hexachloroethane	ND	9.4	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Isophorone	ND	9.4	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
1-Methylnaphthalene	5.8	4.7	0.92	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Nitrobenzene	ND	9.4	0.64	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.62	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Phenol	ND	9.4	0.56	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	SW-846 8270E	11/14/24	11/22/24 20:26	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL
2,4,6-Trichlorophenol	ND	9.4	0.35	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.1	15-110		11/22/24 20:26
Phenol-d6	31.3	15-110		11/22/24 20:26
Nitrobenzene-d5	81.9	30-130		11/22/24 20:26
2-Fluorobiphenyl	74.6	30-130		11/22/24 20:26
2,4,6-Tribromophenol	80.9	15-110		11/22/24 20:26
p-Terphenyl-d14	85.4	30-130		11/22/24 20:26

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	11/14/24	11/21/24 0:34	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	25.0	15-110		11/21/24 0:34	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.5	6.2	0.78	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoropentanoic acid (PFPeA)	8.5	3.1	0.43	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorohexanoic acid (PFHxA)	3.1	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoroheptanoic acid (PFHpA)	2.1	1.6	0.28	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorooctanoic acid (PFOA)	3.2	1.6	0.41	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorononanoic acid (PFNA)	1.6	1.6	0.64	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorodecanoic acid (PFDA)	0.42	1.6	0.38	ng/L	1	J	Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.60	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorooctanesulfonic acid (PFOS)	2.8	1.6	0.39	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.83	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2S | Sampled: 11/12/2024 09:25

Sample ID: 24K1058-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/9/24	12/11/24 16:39	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	86.1	5-130		12/11/24 16:39
13C5-PFPeA	83.7	40-130		12/11/24 16:39
13C5-PFHxA	84.5	40-130		12/11/24 16:39
13C4-PFHpA	80.9	40-130		12/11/24 16:39
13C8-PFOA	86.0	40-130		12/11/24 16:39
13C9-PFNA	85.7	40-130		12/11/24 16:39
13C6-PFDA	86.0	40-130		12/11/24 16:39
13C7-PFUnA	80.3	30-130		12/11/24 16:39
13C2-PFDoA	77.0	10-130		12/11/24 16:39
13C2-PFTeDA	61.0	10-130		12/11/24 16:39
13C3-PFBS	86.3	40-135		12/11/24 16:39
13C3-PFHxS	81.8	40-130		12/11/24 16:39
13C8-PFOS	81.1	40-130		12/11/24 16:39
13C2-4:2FTS	155	40-200		12/11/24 16:39
13C2-6:2FTS	112	40-200		12/11/24 16:39
13C2-8:2FTS	82.8	40-300		12/11/24 16:39
13C8-PFOSA	77.4	40-130		12/11/24 16:39
D3-NMeFOSA	68.8	10-130		12/11/24 16:39
D5-NEtFOSA	63.4	10-130		12/11/24 16:39
D3-NMeFOSAA	90.3	40-170		12/11/24 16:39
D5-NEtFOSAA	90.8	25-135		12/11/24 16:39
D7-NMeFOSE	46.2	10-130		12/11/24 16:39
D9-NEtFOSE	39.3	10-130		12/11/24 16:39
13C3-HFPO-DA	91.7	40-130		12/11/24 16:39

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2M | Sampled: 11/11/2024 12:27

Sample ID: 24K1058-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Amyl Alcohol (TAA)	4.6	5.0	1.3	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Benzene	7.8	1.0	0.14	µg/L	1	V-06	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Butyl Alcohol (TBA)	6.3	20	3.4	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
n-Butylbenzene	0.43	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
sec-Butylbenzene	0.80	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Butylbenzene	0.18	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Cyclohexane	3.9	5.0	1.8	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
cis-1,2-Dichloroethylene	1.0	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Ethylbenzene	0.25	1.0	0.14	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Isopropylbenzene (Cumene)	1.2	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2M | Sampled: 11/11/2024 12:27

Sample ID: 24K1058-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	4.4	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Methyl Cyclohexane	2.0	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
n-Propylbenzene	0.86	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Toluene	0.48	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Vinyl Chloride	1.2	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
m+p Xylene	0.90	2.0	0.25	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
o-Xylene	0.49	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:13	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:13	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.0	70-130		11/15/24 12:13
Toluene-d8	102	70-130		11/15/24 12:13
4-Bromofluorobenzene	104	70-130		11/15/24 12:13

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2D | Sampled: 11/11/2024 11:22

Sample ID: 24K1058-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chloroform	0.69	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1-Dichloroethane	0.15	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-2D | Sampled: 11/11/2024 11:22

Sample ID: 24K1058-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.52	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Tetrachloroethylene	0.46	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 12:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.5	70-130		11/15/24 12:38
Toluene-d8	101	70-130		11/15/24 12:38
4-Bromofluorobenzene	103	70-130		11/15/24 12:38

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.2	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	7.4	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	77.2	70-130		11/15/24 13:04
Toluene-d8	111	70-130		11/15/24 13:04
4-Bromofluorobenzene	86.0	70-130		11/15/24 13:04

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	5.1	µg/L	1	V-06	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Biphenyl	ND	18	0.84	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04, V-06	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Acenaphthene	ND	4.5	0.72	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Acetophenone	ND	9.1	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Aniline	ND	18	8.2	µg/L	1	V-05	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(a)pyrene	ND	4.5	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(g,h,i)perylene	ND	4.5	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Benzo(k)fluoranthene	ND	4.5	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.1	0.68	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.29	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Carbazole	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Chlorophenylphenylether	ND	9.1	0.79	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Chrysene	ND	4.5	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Dibenzofuran	ND	4.5	0.78	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dinitrophenol	ND	9.1	1.2	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Fluorene	ND	4.5	0.69	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Hexachloroethane	ND	9.1	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Isophorone	ND	9.1	0.49	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
1-Methylnaphthalene	ND	4.5	0.89	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Methylnaphthalene	ND	4.5	0.85	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Naphthalene	ND	4.5	0.82	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Nitrobenzene	ND	9.1	0.61	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2-Nitrophenol	ND	9.1	0.49	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
4-Nitrophenol	ND	9.1	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Phenol	ND	9.1	0.54	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Pyrene	ND	4.5	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
Pyridine	ND	18	4.7	µg/L	1	V-34	SW-846 8270E	11/14/24	11/22/24 20:47	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1		SW-846 8270E	11/14/24	11/22/24 20:47	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	31.2	15-110		11/22/24 20:47
Phenol-d6	21.8	15-110		11/22/24 20:47
Nitrobenzene-d5	74.0	30-130		11/22/24 20:47
2-Fluorobiphenyl	68.4	30-130		11/22/24 20:47
2,4,6-Tribromophenol	62.4	15-110		11/22/24 20:47
p-Terphenyl-d14	87.4	30-130		11/22/24 20:47

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.27	0.19	0.032	µg/L	1		SW-846 8270E	11/14/24	11/21/24 0:54	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	20.3	15-110		11/21/24 0:54	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.5	6.2	0.78	ng/L	1	J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoropentanoic acid (PFPeA)	8.3	3.1	0.43	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorohexanoic acid (PFHxA)	7.2	1.6	0.27	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoroheptanoic acid (PFHpA)	3.7	1.6	0.27	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorooctanoic acid (PFOA)	7.5	1.6	0.41	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorononanoic acid (PFNA)	1.7	1.6	0.64	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorodecanoic acid (PFDA)	0.41	1.6	0.38	ng/L	1	J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorobutanesulfonic acid (PFBS)	0.42	1.6	0.34	ng/L	1	PF-22, J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorohexanesulfonic acid (PFHxS)	1.1	1.6	0.60	ng/L	1	J	Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorooctanesulfonic acid (PFOS)	3.7	1.6	0.39	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.45	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1	PF-17	Draft Method 1633	12/4/24	12/7/24 21:30	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.83	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.91	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
11Cl-PF3OUdS (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	0.42	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	12/4/24	12/7/24 21:30	AB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	60.9		5-130		12/7/24 21:30
13C5-PFPeA	71.9		40-130		12/7/24 21:30
13C5-PFHxA	81.6		40-130		12/7/24 21:30
13C4-PFHpA	84.7		40-130		12/7/24 21:30
13C8-PFOA	87.3		40-130		12/7/24 21:30
13C9-PFNA	86.0		40-130		12/7/24 21:30
13C6-PFDA	84.1		40-130		12/7/24 21:30
13C7-PFUnA	81.1		30-130		12/7/24 21:30
13C2-PFDoA	64.9		10-130		12/7/24 21:30
13C2-PFTeDA	21.9		10-130		12/7/24 21:30
13C3-PFBS	80.9		40-135		12/7/24 21:30
13C3-PFHxS	84.6		40-130		12/7/24 21:30
13C8-PFOS	79.6		40-130		12/7/24 21:30
13C2-4:2FTS	**255**	*	40-200	PF-17	12/7/24 21:30
13C2-6:2FTS	188		40-200		12/7/24 21:30
13C2-8:2FTS	119		40-300		12/7/24 21:30
13C8-PFOSA	70.9		40-130		12/7/24 21:30
D3-NMeFOSA	40.9		10-130		12/7/24 21:30
D5-NEtFOSA	32.8		10-130		12/7/24 21:30
D3-NMeFOSAA	95.2		40-170		12/7/24 21:30
D5-NEtFOSAA	91.1		25-135		12/7/24 21:30
D7-NMeFOSE	54.7		10-130		12/7/24 21:30
D9-NEtFOSE	49.7		10-130		12/7/24 21:30
13C3-HFPO-DA	82.8		40-130		12/7/24 21:30

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
gamma-Chlordane [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Aldrin [2]	ND	0.046	0.0041	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
alpha-BHC [2]	ND	0.046	0.020	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
beta-BHC [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
delta-BHC [2]	ND	0.046	0.014	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
gamma-BHC (Lindane) [2]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
4,4'-DDD [2]	ND	0.037	0.0041	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
4,4'-DDE [2]	ND	0.037	0.0036	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
4,4'-DDT [2]	ND	0.037	0.0038	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Dieldrin [2]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endosulfan I [2]	ND	0.046	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endosulfan II [2]	ND	0.074	0.012	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endosulfan sulfate [2]	ND	0.074	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endrin [2]	ND	0.074	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endrin aldehyde [2]	ND	0.074	0.019	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Endrin ketone [2]	ND	0.074	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Heptachlor [2]	ND	0.046	0.0043	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Heptachlor epoxide [2]	ND	0.046	0.0041	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Methoxychlor [2]	ND	0.46	0.073	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG
Toxaphene [2]	ND	0.92	0.39	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.5	30-150		11/19/24 17:33
Decachlorobiphenyl [2]	42.7	30-150		11/19/24 17:33
Tetrachloro-m-xylene [1]	53.1	30-150		11/19/24 17:33
Tetrachloro-m-xylene [2]	56.9	30-150		11/19/24 17:33

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1221 [1]	ND	0.18	0.096	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1232 [1]	ND	0.18	0.086	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1242 [1]	ND	0.18	0.099	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1248 [1]	ND	0.18	0.087	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1254 [1]	ND	0.18	0.097	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1260 [1]	ND	0.18	0.11	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1262 [1]	ND	0.18	0.076	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM
Aroclor-1268 [1]	ND	0.18	0.070	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:02	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	43.9	30-150		11/19/24 15:02
Decachlorobiphenyl [2]	46.1	30-150		11/19/24 15:02
Tetrachloro-m-xylene [1]	54.1	30-150		11/19/24 15:02
Tetrachloro-m-xylene [2]	57.1	30-150		11/19/24 15:02

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7.2	0.050	0.025	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:55	HNN
Antimony	ND	0.050	0.011	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Arsenic	0.010	0.010	0.0050	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Barium	0.15	0.050	0.0098	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Calcium	85	0.50	0.21	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Chromium	0.023	0.010	0.0053	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Cobalt	0.012	0.010	0.0027	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Copper	0.017	0.010	0.0095	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Iron	17	0.050	0.036	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Lead	0.039	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Magnesium	36	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Manganese	8.7	0.010	0.0018	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Mercury	0.00013	0.00020	0.00012	mg/L	1	J	SW-846 7470A	12/5/24	12/9/24 14:32	AAJ
Nickel	0.016	0.010	0.0046	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Potassium	19	2.0	0.47	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/15/24	11/23/24 16:55	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Sodium	390	2.0	0.38	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Vanadium	0.044	0.010	0.0054	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN
Zinc	0.10	0.010	0.0080	mg/L	1		SW-846 6010D	11/15/24	11/22/24 16:00	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.087	0.050	0.025	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Antimony	0.028	0.050	0.011	mg/L	1	J	SW-846 6010D	11/26/24	12/2/24 18:06	HNN
Arsenic	0.0099	0.010	0.0050	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Barium	0.098	0.050	0.0098	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Beryllium	ND	0.0040	0.00090	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Cadmium	ND	0.0040	0.0015	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Calcium	78	0.50	0.21	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Chromium	ND	0.010	0.0053	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Cobalt	0.0030	0.010	0.0027	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Copper	ND	0.010	0.0095	mg/L	1		SW-846 6010D	11/26/24	12/2/24 18:06	HNN
Iron	0.14	0.050	0.036	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Magnesium	35	0.050	0.016	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Manganese	8.2	0.010	0.0018	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Mercury	ND	0.00020	0.00012	mg/L	1		SW-846 7470A	11/27/24	12/2/24 15:48	AAJ
Nickel	0.0062	0.010	0.0046	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Potassium	17	2.0	0.47	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Selenium	ND	0.050	0.0085	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Silver	ND	0.010	0.0044	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Sodium	370	2.0	0.38	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Thallium	ND	0.050	0.016	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Vanadium	0.0062	0.010	0.0054	mg/L	1	J	SW-846 6010D	11/26/24	11/30/24 6:01	HNN
Zinc	0.020	0.010	0.0080	mg/L	1		SW-846 6010D	11/26/24	11/30/24 6:01	HNN

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3S | Sampled: 11/12/2024 13:04

Sample ID: 24K1058-07

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3M | Sampled: 11/11/2024 12:50

Sample ID: 24K1058-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1-Dichloroethane	0.27	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3M | Sampled: 11/11/2024 12:50

Sample ID: 24K1058-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	79.9	70-130		11/15/24 13:29
Toluene-d8	110	70-130		11/15/24 13:29
4-Bromofluorobenzene	105	70-130		11/15/24 13:29

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3D | Sampled: 11/11/2024 10:00

Sample ID: 24K1058-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chloroform	0.76	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1-Dichloroethane	0.17	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-3D | Sampled: 11/11/2024 10:00

Sample ID: 24K1058-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.60	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Tetrachloroethylene	0.48	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 13:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.2	70-130		11/15/24 13:55
Toluene-d8	101	70-130		11/15/24 13:55
4-Bromofluorobenzene	106	70-130		11/15/24 13:55

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.7	50	2.0	µg/L	1	L-04, V-05, J	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Benzene	0.24	1.0	0.14	µg/L	1	V-06, J	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Butyl Alcohol (TBA)	25	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
cis-1,2-Dichloroethylene	1.2	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.0	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Vinyl Chloride	0.42	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:20	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.3	70-130		11/15/24 14:20
Toluene-d8	102	70-130		11/15/24 14:20
4-Bromofluorobenzene	104	70-130		11/15/24 14:20

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	19	5.2	µg/L	1	V-06	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Biphenyl	ND	19	0.85	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Caprolactam	6.7	9.3	0.66	µg/L	1	L-04, V-06, J	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Acetophenone	ND	9.3	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Aniline	ND	19	8.3	µg/L	1	V-05	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.3	0.69	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Carbazole	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Di-n-butylphthalate	ND	9.3	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
3,3-Dichlorobenzidine	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Dimethylphthalate	ND	9.3	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dinitrophenol	ND	9.3	1.2	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Hexachloroethane	ND	9.3	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1	V-04	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
1-Methylnaphthalene	1.5	4.6	0.91	µg/L	1	J	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Methylphenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
3/4-Methylphenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Nitroaniline	ND	9.3	0.40	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
4-Nitrophenol	ND	9.3	1.2	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Pentachlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Pyrene	ND	4.6	0.43	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
Pyridine	ND	19	4.8	µg/L	1	V-34	SW-846 8270E	11/14/24	11/22/24 21:08	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	11/14/24	11/22/24 21:08	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.6	15-110		11/22/24 21:08
Phenol-d6	26.9	15-110		11/22/24 21:08
Nitrobenzene-d5	71.9	30-130		11/22/24 21:08
2-Fluorobiphenyl	67.3	30-130		11/22/24 21:08
2,4,6-Tribromophenol	78.6	15-110		11/22/24 21:08
p-Terphenyl-d14	87.0	30-130		11/22/24 21:08

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.17	0.20	0.032	µg/L	1	J	SW-846 8270E	11/14/24	11/23/24 5:04	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	23.0	15-110		11/23/24 5:04	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4S | Sampled: 11/12/2024 12:50

Sample ID: 24K1058-10

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4M | Sampled: 11/11/2024 14:48

Sample ID: 24K1058-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1	L-04, V-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Benzene	0.28	1.0	0.14	µg/L	1	V-06, J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Butyl Alcohol (TBA)	24	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
sec-Butylbenzene	0.24	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
cis-1,2-Dichloroethylene	1.4	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Isopropylbenzene (Cumene)	0.44	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4M | Sampled: 11/11/2024 14:48

Sample ID: 24K1058-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	2.5	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1	V-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Naphthalene	ND	2.0	0.25	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
n-Propylbenzene	0.28	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	R-05	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Trichloroethylene	0.20	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Vinyl Chloride	0.75	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH
o-Xylene	0.17	1.0	0.16	µg/L	1	J	SW-846 8260D	11/14/24	11/15/24 14:46	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/15/24 14:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.9	70-130		11/15/24 14:46
Toluene-d8	101	70-130		11/15/24 14:46
4-Bromofluorobenzene	101	70-130		11/15/24 14:46

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4D | Sampled: 11/11/2024 13:33

Sample ID: 24K1058-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chloroform	0.56	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1-Dichloroethane	0.21	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: MW-4D | Sampled: 11/11/2024 13:33

Sample ID: 24K1058-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.48	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Tetrachloroethylene	0.47	1.0	0.17	µg/L	1	V-06, J	SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 13:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/18/24 13:05
Toluene-d8	103	70-130		11/18/24 13:05
4-Bromofluorobenzene	107	70-130		11/18/24 13:05

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chloroform	0.53	2.0	0.19	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1-Dichloroethane	0.18	1.0	0.15	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	0.21	1.0	0.17	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Tetrachloroethylene	0.63	1.0	0.17	µg/L	1	V-06, J	SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 12:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		11/18/24 12:40
Toluene-d8	102	70-130		11/18/24 12:40
4-Bromofluorobenzene	104	70-130		11/18/24 12:40

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [2]	ND	0.048	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
gamma-Chlordane [2]	ND	0.048	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Aldrin [2]	ND	0.048	0.0042	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
alpha-BHC [2]	ND	0.048	0.021	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
beta-BHC [2]	ND	0.048	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
delta-BHC [2]	ND	0.048	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
gamma-BHC (Lindane) [2]	ND	0.029	0.0039	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
4,4'-DDD [2]	ND	0.038	0.0042	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
4,4'-DDE [2]	ND	0.038	0.0037	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
4,4'-DDT [2]	ND	0.038	0.0039	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Dieldrin [2]	ND	0.0019	0.00096	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endosulfan I [2]	ND	0.048	0.015	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endosulfan II [2]	ND	0.077	0.013	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endosulfan sulfate [2]	ND	0.077	0.016	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endrin [2]	ND	0.077	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endrin aldehyde [2]	ND	0.077	0.019	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Endrin ketone [2]	ND	0.077	0.017	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Heptachlor [2]	ND	0.048	0.0045	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Heptachlor epoxide [2]	ND	0.048	0.0042	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Methoxychlor [2]	ND	0.48	0.076	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG
Toxaphene [2]	ND	0.96	0.40	µg/L	1		SW-846 8081B	11/14/24	11/19/24 17:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.7	30-150		11/19/24 17:45
Decachlorobiphenyl [2]	100	30-150		11/19/24 17:45
Tetrachloro-m-xylene [1]	82.9	30-150		11/19/24 17:45
Tetrachloro-m-xylene [2]	86.3	30-150		11/19/24 17:45

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.13	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1221 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1232 [1]	ND	0.19	0.090	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1242 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1248 [1]	ND	0.19	0.090	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1254 [1]	ND	0.19	0.10	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1260 [1]	ND	0.19	0.12	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1262 [1]	ND	0.19	0.079	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM
Aroclor-1268 [1]	ND	0.19	0.073	µg/L	1		SW-846 8082A	11/14/24	11/19/24 15:15	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		11/19/24 15:15
Decachlorobiphenyl [2]	107	30-150		11/19/24 15:15
Tetrachloro-m-xylene [1]	80.5	30-150		11/19/24 15:15
Tetrachloro-m-xylene [2]	86.2	30-150		11/19/24 15:15

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: DUP-111224 | Sampled: 11/12/2024 00:00

Sample ID: 24K1058-13

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0088	mg/L	1		SW-846 9014	11/24/24	11/25/24 13:50	DET
Hexavalent Chromium	ND	0.0040	0.0029	mg/L	1	H-10	SW-846 7196A	11/18/24	11/18/24 13:17	NRH

Pace Analytical Services, LLC - East Longmeadow, Ma

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Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: Trip Blank-111124 | Sampled: 11/11/2024 00:00

Sample ID: 24K1058-14

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	R-05	SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Ethanol	ND	50	20	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Oyster Bay, NY | Sample Description: | Work Order: 24K1058

Date Received: 11/13/2024

Field Sample #: Trip Blank-111124 | Sampled: 11/11/2024 00:00

Sample ID: 24K1058-14

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Toluene	0.15	1.0	0.11	µg/L	1	J	SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/14/24	11/18/24 11:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		11/18/24 11:23
Toluene-d8	99.8	70-130		11/18/24 11:23
4-Bromofluorobenzene	101	70-130		11/18/24 11:23

Pace Analytical Services, LLC - East Longmeadow, Ma

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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
24K1058-07 [MW-3S]	B393458	513	4.00	12/04/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01RE1 [MW-1S]	B394053	535	4.00	12/09/24
24K1058-03RE1 [MW-1D]	B394053	522	4.00	12/09/24
24K1058-04RE1 [MW-2S]	B394053	513	4.00	12/09/24

Prep Method:SW-846 3005A **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392369	50.0	50.0	11/15/24
24K1058-03 [MW-1D]	B392369	50.0	50.0	11/15/24
24K1058-07 [MW-3S]	B392369	50.0	50.0	11/15/24

Prep Method:SW-846 3005A Dissolved **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-07 [MW-3S]	B393234	50.0	50.0	11/26/24

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392500	50.0	50.0	11/18/24
24K1058-13 [DUP-111224]	B392500	50.0	50.0	11/18/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B393189	10.0	10.0	11/26/24
24K1058-03 [MW-1D]	B393189	10.0	10.0	11/26/24

Prep Method:SW-846 7470A Dissolved **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-07 [MW-3S]	B393194	10.0	10.0	11/27/24

Prep Method:SW-846 7470A Prep **Analytical Method:SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-07 [MW-3S]	B393825	10.0	10.0	12/05/24

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Sample Extraction Data

Prep Method:SW-846 3510C **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392245	102	2.00	11/14/24
24K1058-03 [MW-1D]	B392245	103	2.00	11/14/24
24K1058-07 [MW-3S]	B392245	108	2.00	11/14/24
24K1058-13 [DUP-111224]	B392245	104	2.00	11/14/24

Prep Method:SW-846 3510C **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392244	102	2.00	11/14/24
24K1058-03 [MW-1D]	B392244	103	2.00	11/14/24
24K1058-07 [MW-3S]	B392244	108	2.00	11/14/24
24K1058-13 [DUP-111224]	B392244	104	2.00	11/14/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-02 [MW-1M]	B392238	5	5.00	11/14/24
24K1058-03 [MW-1D]	B392238	5	5.00	11/14/24
24K1058-04 [MW-2S]	B392238	5	5.00	11/14/24
24K1058-05 [MW-2M]	B392238	5	5.00	11/14/24
24K1058-06 [MW-2D]	B392238	5	5.00	11/14/24
24K1058-07 [MW-3S]	B392238	5	5.00	11/14/24
24K1058-08 [MW-3M]	B392238	5	5.00	11/14/24
24K1058-09 [MW-3D]	B392238	5	5.00	11/14/24
24K1058-10 [MW-4S]	B392238	5	5.00	11/14/24
24K1058-11 [MW-4M]	B392238	5	5.00	11/14/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392239	5	5.00	11/14/24
24K1058-12 [MW-4D]	B392239	5	5.00	11/14/24
24K1058-13 [DUP-111224]	B392239	5	5.00	11/14/24
24K1058-14 [Trip Blank-111124]	B392239	5	5.00	11/14/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392184	980	1.00	11/14/24
24K1058-03 [MW-1D]	B392184	1040	1.00	11/14/24
24K1058-04 [MW-2S]	B392184	1020	1.00	11/14/24
24K1058-07 [MW-3S]	B392184	1030	1.00	11/14/24
24K1058-10 [MW-4S]	B392184	1020	1.00	11/14/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B392242	104	1.00	11/14/24
24K1058-03 [MW-1D]	B392242	99.1	1.00	11/14/24

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-04 [MW-2S]	B392242	106	1.00	11/14/24
24K1058-07 [MW-3S]	B392242	110	1.00	11/14/24
24K1058-10 [MW-4S]	B392242	108	1.00	11/14/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K1058-01 [MW-1S]	B393012	50.0	50.0	11/24/24
24K1058-03 [MW-1D]	B393012	50.0	50.0	11/24/24
24K1058-07 [MW-3S]	B393012	50.0	50.0	11/24/24
24K1058-10 [MW-4S]	B393012	50.0	50.0	11/24/24
24K1058-13 [DUP-111224]	B393012	50.0	50.0	11/24/24

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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 B392238 - SW-846 5030B										
Blank (B392238-BLK1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Acetone	ND	50	µg/L							L-04, V-05
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							R-05
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							V-05
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							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	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							V-05
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							R-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	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 B392238 - SW-846 5030B											
Blank (B392238-BLK1)				Prepared: 11/14/24 Analyzed: 11/15/24							
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L							R-05	
1,2,4-Trichlorobenzene	ND	1.0	µg/L							R-05	
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.00		93.6	70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.00		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.00		103	70-130				
LCS (B392238-BS1)				Prepared: 11/14/24 Analyzed: 11/15/24							
Acetone	63.8	50	µg/L	100.0		**63.8** *	70-160			L-04, V-05	†
tert-Amyl Alcohol (TAA)	104	5.0	µg/L	100.0		104	70-130				
tert-Amyl Ethyl Ether (TAEE)	10.9	0.50	µg/L	10.00		109	70-130				
tert-Amyl Methyl Ether (TAME)	11.5	0.50	µg/L	10.00		115	70-130				
Benzene	12.7	1.0	µg/L	10.00		127	70-130			V-06	
Bromochloromethane	12.2	1.0	µg/L	10.00		122	70-130				
Bromodichloromethane	11.8	0.50	µg/L	10.00		118	70-130				
Bromoform	9.52	1.0	µg/L	10.00		95.2	70-130				
Bromomethane	10.9	2.0	µg/L	10.00		109	40-160				†
2-Butanone (MEK)	95.9	20	µg/L	100.0		95.9	40-160				†
tert-Butyl Alcohol (TBA)	86.6	20	µg/L	100.0		86.6	40-160				†
n-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
sec-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130				
tert-Butylbenzene	10.1	1.0	µg/L	10.00		101	70-130				
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.00		116	70-130				
Carbon Disulfide	115	5.0	µg/L	100.0		115	70-130				
Carbon Tetrachloride	12.0	5.0	µg/L	10.00		120	70-130				
Chlorobenzene	11.0	1.0	µg/L	10.00		110	70-130				
Chlorodibromomethane	11.5	0.50	µg/L	10.00		115	70-130				
Chloroethane	8.25	2.0	µg/L	10.00		82.5	70-130				
Chloroform	11.3	2.0	µg/L	10.00		113	70-130				
Chloromethane	10.6	2.0	µg/L	10.00		106	40-160				†
Cyclohexane	12.2	5.0	µg/L	10.00		122	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.60	5.0	µg/L	10.00		76.0	70-130			R-05	
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.00		118	70-130				
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.00		105	70-130				
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.00		102	70-130				
1,4-Dichlorobenzene	9.98	1.0	µg/L	10.00		99.8	70-130				
Dichlorodifluoromethane (Freon 12)	12.6	2.0	µg/L	10.00		126	40-160				†
1,1-Dichloroethane	11.9	1.0	µg/L	10.00		119	70-130				
1,2-Dichloroethane	10.4	1.0	µg/L	10.00		104	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392238 - SW-846 5030B											
LCS (B392238-BS1)				Prepared: 11/14/24 Analyzed: 11/15/24							
1,1-Dichloroethylene	7.97	1.0	µg/L	10.00		79.7	70-130			V-05	
cis-1,2-Dichloroethylene	12.0	1.0	µg/L	10.00		120	70-130				
trans-1,2-Dichloroethylene	12.0	1.0	µg/L	10.00		120	70-130				
1,2-Dichloropropane	11.9	1.0	µg/L	10.00		119	70-130				
cis-1,3-Dichloropropene	11.6	0.50	µg/L	10.00		116	70-130				
trans-1,3-Dichloropropene	11.4	0.50	µg/L	10.00		114	70-130				
Diisopropyl Ether (DIPE)	11.9	0.50	µg/L	10.00		119	70-130				
Ethanol	82.7	50	µg/L	100.0		82.7	40-160				
Ethylbenzene	11.1	1.0	µg/L	10.00		111	70-130				
2-Hexanone (MBK)	111	10	µg/L	100.0		111	70-160				†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.00		105	70-130				
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.00		101	70-130				
Methyl Acetate	10.8	1.0	µg/L	10.00		108	70-130				
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.00		114	70-130				
Methyl Cyclohexane	12.2	1.0	µg/L	10.00		122	70-130				
Methylene Chloride	12.0	5.0	µg/L	10.00		120	70-130			V-05	
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100.0		113	70-160				†
Naphthalene	7.42	2.0	µg/L	10.00		74.2	40-130			R-05	†
n-Propylbenzene	11.0	1.0	µg/L	10.00		110	70-130				
Styrene	10.6	1.0	µg/L	10.00		106	70-130				
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.00		106	70-130				
Tetrachloroethylene	12.0	1.0	µg/L	10.00		120	70-130				
Toluene	12.3	1.0	µg/L	10.00		123	70-130				
1,2,3-Trichlorobenzene	9.00	5.0	µg/L	10.00		90.0	70-130			R-05, V-20	
1,2,4-Trichlorobenzene	7.91	1.0	µg/L	10.00		79.1	70-130			R-05	
1,1,1-Trichloroethane	11.8	1.0	µg/L	10.00		118	70-130				
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.00		117	70-130				
Trichloroethylene	12.2	1.0	µg/L	10.00		122	70-130				
Trichlorofluoromethane (Freon 11)	8.79	2.0	µg/L	10.00		87.9	70-130				
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.00		102	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.7	1.0	µg/L	10.00		127	70-130				
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.00		105	70-130				
Vinyl Chloride	11.5	2.0	µg/L	10.00		115	40-160				†
m+p Xylene	21.5	2.0	µg/L	20.00		108	70-130				
o-Xylene	11.0	1.0	µg/L	10.00		110	70-130				
Xylenes (total)	32.5	1.0	µg/L	30.00		108	0-200				
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.00		92.2	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.00		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.00		105	70-130				
LCS Dup (B392238-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24							
Acetone	63.4	50	µg/L	100.0		**63.4**	* 70-160	0.629	25	L-04, V-05	†
tert-Amyl Alcohol (TAA)	120	5.0	µg/L	100.0		120	70-130	13.6	25		
tert-Amyl Ethyl Ether (TAEE)	11.0	0.50	µg/L	10.00		110	70-130	1.18	25		
tert-Amyl Methyl Ether (TAME)	11.9	0.50	µg/L	10.00		119	70-130	3.93	25		
Benzene	13.0	1.0	µg/L	10.00		130	70-130	1.71	25	V-06	
Bromochloromethane	11.2	1.0	µg/L	10.00		112	70-130	8.89	25		
Bromodichloromethane	11.7	0.50	µg/L	10.00		117	70-130	1.36	25		
Bromoform	10.1	1.0	µg/L	10.00		101	70-130	6.31	25		
Bromomethane	9.96	2.0	µg/L	10.00		99.6	40-160	8.92	25		†
2-Butanone (MEK)	88.5	20	µg/L	100.0		88.5	40-160	8.04	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 B392238 - SW-846 5030B												
LCS Dup (B392238-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24								
tert-Butyl Alcohol (TBA)	101	20	µg/L	100.0		101	40-160	15.5		25		†
n-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130	0.671		25		
sec-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130	1.37		25		
tert-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	0.790		25		
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.00		110	70-130	4.87		25		
Carbon Disulfide	103	5.0	µg/L	100.0		103	70-130	11.0		25		
Carbon Tetrachloride	12.4	5.0	µg/L	10.00		124	70-130	3.28		25		
Chlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	0.635		25		
Chlorodibromomethane	11.7	0.50	µg/L	10.00		117	70-130	1.55		25		
Chloroethane	7.94	2.0	µg/L	10.00		79.4	70-130	3.83		25		
Chloroform	10.9	2.0	µg/L	10.00		109	70-130	3.79		25		
Chloromethane	9.97	2.0	µg/L	10.00		99.7	40-160	5.94		25		†
Cyclohexane	12.5	5.0	µg/L	10.00		125	70-130	1.94		25		
1,2-Dibromo-3-chloropropane (DBCP)	9.79	5.0	µg/L	10.00		97.9	70-130	**25.2**	*	25	R-05	
1,2-Dibromoethane (EDB)	11.7	0.50	µg/L	10.00		117	70-130	0.682		25		
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.00		104	70-130	1.63		25		
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130	0.390		25		
1,4-Dichlorobenzene	10.0	1.0	µg/L	10.00		100	70-130	0.400		25		
Dichlorodifluoromethane (Freon 12)	12.6	2.0	µg/L	10.00		126	40-160	0.238		25		†
1,1-Dichloroethane	11.1	1.0	µg/L	10.00		111	70-130	7.05		25		
1,2-Dichloroethane	10.2	1.0	µg/L	10.00		102	70-130	1.93		25		
1,1-Dichloroethylene	8.64	1.0	µg/L	10.00		86.4	70-130	8.07		25	V-05	
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.00		111	70-130	7.53		25		
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.00		110	70-130	9.40		25		
1,2-Dichloropropane	11.6	1.0	µg/L	10.00		116	70-130	2.38		25		
cis-1,3-Dichloropropene	11.7	0.50	µg/L	10.00		117	70-130	0.770		25		
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112	70-130	2.30		25		
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.00		108	70-130	10.3		25		
Ethanol	79.1	50	µg/L	100.0		79.1	40-160	4.45		25		
Ethylbenzene	11.4	1.0	µg/L	10.00		114	70-130	3.11		25		
2-Hexanone (MBK)	121	10	µg/L	100.0		121	70-160	8.75		25		†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.00		108	70-130	2.35		25		
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.00		101	70-130	0.496		25		
Methyl Acetate	9.71	1.0	µg/L	10.00		97.1	70-130	10.3		25		
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.00		108	70-130	5.66		25		
Methyl Cyclohexane	12.4	1.0	µg/L	10.00		124	70-130	1.71		25		
Methylene Chloride	9.99	5.0	µg/L	10.00		99.9	70-130	18.7		25	V-05	
4-Methyl-2-pentanone (MIBK)	121	10	µg/L	100.0		121	70-160	6.72		25		†
Naphthalene	12.0	2.0	µg/L	10.00		120	40-130	**46.9**	*	25	R-05	†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111	70-130	0.998		25		
Styrene	10.8	1.0	µg/L	10.00		108	70-130	1.12		25		
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.00		112	70-130	5.31		25		
Tetrachloroethylene	11.8	1.0	µg/L	10.00		118	70-130	1.43		25		
Toluene	12.1	1.0	µg/L	10.00		121	70-130	1.72		25		
1,2,3-Trichlorobenzene	12.7	5.0	µg/L	10.00		127	70-130	**33.9**	*	25	R-05, V-20	
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.00		104	70-130	**27.3**	*	25	R-05	
1,1,1-Trichloroethane	12.1	1.0	µg/L	10.00		121	70-130	2.76		25		
1,1,2-Trichloroethane	11.8	1.0	µg/L	10.00		118	70-130	0.851		25		
Trichloroethylene	12.2	1.0	µg/L	10.00		122	70-130	0.00		25		
Trichlorofluoromethane (Freon 11)	8.92	2.0	µg/L	10.00		89.2	70-130	1.47		25		
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.00		107	70-130	5.18		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 B392238 - SW-846 5030B										
LCS Dup (B392238-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.00		117	70-130	8.43	25	
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130	1.91	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130	0.951	25	
Vinyl Chloride	10.4	2.0	µg/L	10.00		104	40-160	9.89	25	†
m+p Xylene	22.6	2.0	µg/L	20.00		113	70-130	5.03	25	
o-Xylene	11.2	1.0	µg/L	10.00		112	70-130	1.44	25	
Xylenes (total)	33.8	1.0	µg/L	30.00		113	0-200	3.83		
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.00		93.6	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.00		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.00		106	70-130			
Batch B392239 - SW-846 5030B										
Blank (B392239-BLK1)				Prepared: 11/14/24 Analyzed: 11/18/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							R-05
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
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							
Diisopropyl Ether (DIPE)	ND	0.50	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 B392239 - SW-846 5030B											
Blank (B392239-BLK1)				Prepared: 11/14/24 Analyzed: 11/18/24							
Ethanol	ND	50	µg/L								
Ethylbenzene	ND	1.0	µg/L								
2-Hexanone (MBK)	ND	10	µg/L								
Isopropylbenzene (Cumene)	ND	1.0	µg/L								
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L								
Methyl Acetate	ND	1.0	µg/L								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*27.8*		µg/L	25.00		111	70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.00		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.00		104	70-130				
LCS (B392239-BS1)				Prepared: 11/14/24 Analyzed: 11/18/24							
Acetone	97.9	50	µg/L	100.0		97.9	70-160				†
tert-Amyl Alcohol (TAA)	83.8	5.0	µg/L	100.0		83.8	70-130			R-05	
tert-Amyl Ethyl Ether (TAEE)	10.3	0.50	µg/L	10.00		103	70-130				
tert-Amyl Methyl Ether (TAME)	9.85	0.50	µg/L	10.00		98.5	70-130				
Benzene	9.71	1.0	µg/L	10.00		97.1	70-130				
Bromochloromethane	11.2	1.0	µg/L	10.00		112	70-130				
Bromodichloromethane	12.0	0.50	µg/L	10.00		120	70-130				
Bromoform	12.1	1.0	µg/L	10.00		121	70-130			V-20	
Bromomethane	10.4	2.0	µg/L	10.00		104	40-160				†
2-Butanone (MEK)	82.6	20	µg/L	100.0		82.6	40-160				†
tert-Butyl Alcohol (TBA)	94.7	20	µg/L	100.0		94.7	40-160				†
n-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
sec-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.96	0.50	µg/L	10.00		99.6	70-130				
Carbon Disulfide	90.0	5.0	µg/L	100.0		90.0	70-130				
Carbon Tetrachloride	12.6	5.0	µg/L	10.00		126	70-130			V-20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B392239 - SW-846 5030B											
LCS (B392239-BS1)				Prepared: 11/14/24 Analyzed: 11/18/24							
Chlorobenzene	11.2	1.0	µg/L	10.00		112	70-130				
Chlorodibromomethane	11.6	0.50	µg/L	10.00		116	70-130				
Chloroethane	9.09	2.0	µg/L	10.00		90.9	70-130				
Chloroform	10.2	2.0	µg/L	10.00		102	70-130				
Chloromethane	9.01	2.0	µg/L	10.00		90.1	40-160				†
Cyclohexane	9.54	5.0	µg/L	10.00		95.4	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.54	5.0	µg/L	10.00		95.4	70-130				
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.00		105	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	10.4	1.0	µg/L	10.00		104	70-130				
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.00		122	40-160				†
1,1-Dichloroethane	10.2	1.0	µg/L	10.00		102	70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.00		108	70-130				
1,1-Dichloroethylene	11.0	1.0	µg/L	10.00		110	70-130				
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.00		104	70-130				
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
1,2-Dichloropropane	10.1	1.0	µg/L	10.00		101	70-130				
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.00		105	70-130				
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.00		109	70-130				
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.00		103	70-130				
Ethanol	118	50	µg/L	100.0		118	40-160				
Ethylbenzene	11.3	1.0	µg/L	10.00		113	70-130				
2-Hexanone (MBK)	103	10	µg/L	100.0		103	70-160				†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.00		112	70-130				
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.00		106	70-130				
Methyl Acetate	10.3	1.0	µg/L	10.00		103	70-130				
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.00		103	70-130				
Methyl Cyclohexane	10.6	1.0	µg/L	10.00		106	70-130				
Methylene Chloride	10.3	5.0	µg/L	10.00		103	70-130				
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100.0		102	70-160				†
Naphthalene	11.1	2.0	µg/L	10.00		111	40-130			V-20	†
n-Propylbenzene	11.1	1.0	µg/L	10.00		111	70-130				
Styrene	11.3	1.0	µg/L	10.00		113	70-130				
1,1,2,2-Tetrachloroethane	9.85	0.50	µg/L	10.00		98.5	70-130				
Tetrachloroethylene	12.3	1.0	µg/L	10.00		123	70-130			V-20	
Toluene	10.7	1.0	µg/L	10.00		107	70-130				
1,2,3-Trichlorobenzene	12.6	5.0	µg/L	10.00		126	70-130			V-20	
1,2,4-Trichlorobenzene	12.0	1.0	µg/L	10.00		120	70-130			V-20	
1,1,1-Trichloroethane	12.1	1.0	µg/L	10.00		121	70-130				
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.00		107	70-130				
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130				
Trichlorofluoromethane (Freon 11)	12.1	2.0	µg/L	10.00		121	70-130				
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.00		102	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.00		114	70-130				
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.00		111	70-130				
Vinyl Chloride	10.8	2.0	µg/L	10.00		108	40-160				†
m+p Xylene	22.4	2.0	µg/L	20.00		112	70-130				
o-Xylene	11.1	1.0	µg/L	10.00		111	70-130				
Xylenes (total)	33.5	1.0	µg/L	30.00		112	0-200				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B392239 - SW-846 5030B													
LCS (B392239-BS1)				Prepared: 11/14/24 Analyzed: 11/18/24									
Surrogate: 1,2-Dichloroethane-d4	*27.0*		µg/L	25.00		108		70-130					
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100		70-130					
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.00		104		70-130					
LCS Dup (B392239-BSD1)				Prepared: 11/14/24 Analyzed: 11/18/24									
Acetone	108	50	µg/L	100.0		108		70-160	9.60		25		†
tert-Amyl Alcohol (TAA)	111	5.0	µg/L	100.0		111		70-130	**27.5**	*	25	R-05	
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00		106		70-130	2.58		25		
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.00		110		70-130	10.6		25		
Benzene	10.9	1.0	µg/L	10.00		109		70-130	11.5		25		
Bromochloromethane	11.2	1.0	µg/L	10.00		112		70-130	0.267		25		
Bromodichloromethane	12.1	0.50	µg/L	10.00		121		70-130	1.33		25		
Bromoform	12.5	1.0	µg/L	10.00		125		70-130	3.50		25	V-20	
Bromomethane	11.6	2.0	µg/L	10.00		116		40-160	11.3		25		†
2-Butanone (MEK)	92.8	20	µg/L	100.0		92.8		40-160	11.7		25		†
tert-Butyl Alcohol (TBA)	116	20	µg/L	100.0		116		40-160	19.9		25		†
n-Butylbenzene	10.9	1.0	µg/L	10.00		109		70-130	5.48		25		
sec-Butylbenzene	11.0	1.0	µg/L	10.00		110		70-130	6.86		25		
tert-Butylbenzene	11.3	1.0	µg/L	10.00		113		70-130	8.86		25		
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	µg/L	10.00		109		70-130	8.83		25		
Carbon Disulfide	101	5.0	µg/L	100.0		101		70-130	11.1		25		
Carbon Tetrachloride	13.7	5.0	µg/L	10.00		**137**	*	70-130	8.53		25	L-07, V-20	
Chlorobenzene	12.0	1.0	µg/L	10.00		120		70-130	6.37		25		
Chlorodibromomethane	13.0	0.50	µg/L	10.00		130		70-130	11.2		25		
Chloroethane	10.2	2.0	µg/L	10.00		102		70-130	11.0		25		
Chloroform	11.4	2.0	µg/L	10.00		114		70-130	11.3		25		
Chloromethane	9.63	2.0	µg/L	10.00		96.3		40-160	6.65		25		†
Cyclohexane	10.7	5.0	µg/L	10.00		107		70-130	11.4		25		
1,2-Dibromo-3-chloropropane (DBCP)	11.0	5.0	µg/L	10.00		110		70-130	13.9		25		
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.00		116		70-130	9.71		25		
1,2-Dichlorobenzene	11.9	1.0	µg/L	10.00		119		70-130	9.49		25		
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.00		116		70-130	10.4		25		
1,4-Dichlorobenzene	11.6	1.0	µg/L	10.00		116		70-130	10.9		25		
Dichlorodifluoromethane (Freon 12)	12.7	2.0	µg/L	10.00		127		40-160	4.10		25		†
1,1-Dichloroethane	11.3	1.0	µg/L	10.00		113		70-130	9.49		25		
1,2-Dichloroethane	11.4	1.0	µg/L	10.00		114		70-130	5.41		25		
1,1-Dichloroethylene	11.5	1.0	µg/L	10.00		115		70-130	5.06		25		
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.00		111		70-130	6.43		25		
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.00		110		70-130	7.83		25		
1,2-Dichloropropane	10.6	1.0	µg/L	10.00		106		70-130	5.11		25		
cis-1,3-Dichloropropene	11.4	0.50	µg/L	10.00		114		70-130	8.85		25		
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112		70-130	2.63		25		
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.00		111		70-130	7.49		25		
Ethanol	121	50	µg/L	100.0		121		40-160	2.66		25		
Ethylbenzene	11.9	1.0	µg/L	10.00		119		70-130	5.52		25		
2-Hexanone (MBK)	117	10	µg/L	100.0		117		70-160	12.6		25		†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.00		117		70-130	4.29		25		
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.00		111		70-130	4.72		25		
Methyl Acetate	11.0	1.0	µg/L	10.00		110		70-130	6.31		25		
Methyl tert-Butyl Ether (MTBE)	11.8	1.0	µg/L	10.00		118		70-130	12.8		25		
Methyl Cyclohexane	10.9	1.0	µg/L	10.00		109		70-130	2.52		25		
Methylene Chloride	11.1	5.0	µg/L	10.00		111		70-130	7.64		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 B392239 - SW-846 5030B												
LCS Dup (B392239-BSD1)				Prepared: 11/14/24 Analyzed: 11/18/24								
4-Methyl-2-pentanone (MIBK)	118	10	µg/L	100.0		118		70-160	14.9	25		†
Naphthalene	13.0	2.0	µg/L	10.00		130		40-130	16.0	25	V-20	†
n-Propylbenzene	11.9	1.0	µg/L	10.00		119		70-130	7.31	25		
Styrene	11.6	1.0	µg/L	10.00		116		70-130	2.35	25		
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.00		112		70-130	12.8	25		
Tetrachloroethylene	12.8	1.0	µg/L	10.00		128		70-130	3.98	25	V-20	
Toluene	11.4	1.0	µg/L	10.00		114		70-130	6.35	25		
1,2,3-Trichlorobenzene	14.6	5.0	µg/L	10.00		**146**	*	70-130	14.7	25	L-07, V-20	
1,2,4-Trichlorobenzene	12.7	1.0	µg/L	10.00		127		70-130	5.26	25	V-20	
1,1,1-Trichloroethane	12.8	1.0	µg/L	10.00		128		70-130	5.47	25		
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.00		112		70-130	5.20	25		
Trichloroethylene	12.4	1.0	µg/L	10.00		124		70-130	12.2	25		
Trichlorofluoromethane (Freon 11)	13.2	2.0	µg/L	10.00		**132**	*	70-130	8.61	25	L-07	
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109		70-130	6.56	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0	1.0	µg/L	10.00		120		70-130	4.94	25		
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.00		110		70-130	5.40	25		
1,3,5-Trimethylbenzene	12.0	1.0	µg/L	10.00		120		70-130	7.97	25		
Vinyl Chloride	11.8	2.0	µg/L	10.00		118		40-160	8.93	25		†
m+p Xylene	24.1	2.0	µg/L	20.00		120		70-130	7.24	25		
o-Xylene	11.8	1.0	µg/L	10.00		118		70-130	5.84	25		
Xylenes (total)	35.9	1.0	µg/L	30.00		120		0-200	6.77			
Surrogate: 1,2-Dichloroethane-d4	*27.0*		µg/L	25.00		108		70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.00		102		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.00		103		70-130				
Matrix Spike (B392239-MS1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/18/24								
Acetone	101	50	µg/L	100.0	ND	101		70-130				
tert-Amyl Alcohol (TAA)	103	5.0	µg/L	100.0	6.81	95.9		70-130			R-05	
tert-Amyl Ethyl Ether (TAEE)	9.65	0.50	µg/L	10.00	ND	96.5		70-130				
tert-Amyl Methyl Ether (TAME)	9.58	0.50	µg/L	10.00	ND	95.8		70-130				
Benzene	26.4	1.0	µg/L	10.00	19.1	72.2		70-130				
Bromochloromethane	9.84	1.0	µg/L	10.00	ND	98.4		70-130				
Bromodichloromethane	10.9	0.50	µg/L	10.00	ND	109		70-130				
Bromoform	11.2	1.0	µg/L	10.00	ND	112		70-130			V-20	
Bromomethane	9.50	2.0	µg/L	10.00	ND	95.0		70-130				
2-Butanone (MEK)	78.6	20	µg/L	100.0	ND	78.6		70-130				
tert-Butyl Alcohol (TBA)	171	20	µg/L	100.0	69.1	102		70-130				
n-Butylbenzene	12.1	1.0	µg/L	10.00	1.47	107		70-130				
sec-Butylbenzene	12.9	1.0	µg/L	10.00	2.57	104		70-130				
tert-Butylbenzene	11.5	1.0	µg/L	10.00	0.790	107		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.73	0.50	µg/L	10.00	ND	97.3		70-130				
Carbon Disulfide	90.6	5.0	µg/L	100.0	ND	90.6		70-130				
Carbon Tetrachloride	11.9	5.0	µg/L	10.00	ND	119		70-130			V-20	
Chlorobenzene	11.2	1.0	µg/L	10.00	ND	112		70-130				
Chlorodibromomethane	11.4	0.50	µg/L	10.00	ND	114		70-130				
Chloroethane	8.60	2.0	µg/L	10.00	ND	86.0		70-130				
Chloroform	9.86	2.0	µg/L	10.00	ND	98.6		70-130				
Chloromethane	9.20	2.0	µg/L	10.00	ND	92.0		70-130				
Cyclohexane	10.8	5.0	µg/L	10.00	ND	108		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.00	ND	104		70-130				
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.00	ND	103		70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00	ND	108		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392239 - SW-846 5030B											
Matrix Spike (B392239-MS1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/18/24							
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.00	ND	104		70-130			
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.00	ND	105		70-130			
Dichlorodifluoromethane (Freon 12)	11.0	2.0	µg/L	10.00	ND	110		70-130			
1,1-Dichloroethane	9.72	1.0	µg/L	10.00	ND	97.2		70-130			
1,2-Dichloroethane	10.0	1.0	µg/L	10.00	ND	100		70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.00	ND	108		70-130			
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.00	0.470	95.5		70-130			
trans-1,2-Dichloroethylene	9.99	1.0	µg/L	10.00	ND	99.9		70-130			
1,2-Dichloropropane	9.70	1.0	µg/L	10.00	ND	97.0		70-130			
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.00	ND	101		70-130			
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.00	ND	101		70-130			
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.00	0.290	97.3		70-130			
Ethanol	90.7	50	µg/L	100.0	ND	90.7		70-130			
Ethylbenzene	11.2	1.0	µg/L	10.00	ND	112		70-130			
2-Hexanone (MBK)	111	10	µg/L	100.0	ND	111		70-130			
Isopropylbenzene (Cumene)	14.8	1.0	µg/L	10.00	3.77	110		70-130			
p-Isopropyltoluene (p-Cymene)	24.8	1.0	µg/L	10.00	13.8	110		70-130			
Methyl Acetate	8.37	1.0	µg/L	10.00	ND	83.7		70-130			
Methyl tert-Butyl Ether (MTBE)	24.7	1.0	µg/L	10.00	16.4	83.6		70-130			
Methyl Cyclohexane	12.9	1.0	µg/L	10.00	1.88	110		70-130			
Methylene Chloride	9.91	5.0	µg/L	10.00	ND	99.1		70-130			
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100.0	ND	113		70-130			
Naphthalene	13.5	2.0	µg/L	10.00	ND	**135**	*	70-130			MS-15, V-20
n-Propylbenzene	14.1	1.0	µg/L	10.00	3.16	110		70-130			
Styrene	11.0	1.0	µg/L	10.00	ND	110		70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.00	ND	105		70-130			
Tetrachloroethylene	12.3	1.0	µg/L	10.00	ND	123		70-130			V-20
Toluene	10.9	1.0	µg/L	10.00	0.460	104		70-130			
1,2,3-Trichlorobenzene	14.6	5.0	µg/L	10.00	ND	**146**	*	70-130			MS-15, V-20
1,2,4-Trichlorobenzene	12.1	1.0	µg/L	10.00	ND	121		70-130			V-20
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.00	ND	115		70-130			
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.00	ND	108		70-130			
Trichloroethylene	11.2	1.0	µg/L	10.00	ND	112		70-130			
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.00	ND	120		70-130			
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.00	ND	101		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00	ND	104		70-130			
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00	ND	103		70-130			
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.00	ND	111		70-130			
Vinyl Chloride	10.9	2.0	µg/L	10.00	0.760	101		70-130			
m+p Xylene	23.8	2.0	µg/L	20.00	1.47	112		70-130			
o-Xylene	12.2	1.0	µg/L	10.00	0.910	113		70-130			
Xylenes (total)	36.0	1.0	µg/L	30.00	2.38	112		0-200			
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.00		103		70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100		70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.00		105		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 B392239 - SW-846 5030B											
Matrix Spike Dup (B392239-MSD1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/18/24							
Acetone	101	50	µg/L	100.0	ND	101		70-130	0.405	30	
tert-Amyl Alcohol (TAA)	95.3	5.0	µg/L	100.0	6.81	88.5		70-130	7.40	30	R-05
tert-Amyl Ethyl Ether (TAEE)	10.2	0.50	µg/L	10.00	ND	102		70-130	5.05	30	
tert-Amyl Methyl Ether (TAME)	9.77	0.50	µg/L	10.00	ND	97.7		70-130	1.96	30	
Benzene	26.5	1.0	µg/L	10.00	19.1	73.9		70-130	0.643	30	
Bromochloromethane	10.2	1.0	µg/L	10.00	ND	102		70-130	3.69	30	
Bromodichloromethane	11.5	0.50	µg/L	10.00	ND	115		70-130	5.27	30	
Bromoform	11.7	1.0	µg/L	10.00	ND	117		70-130	4.02	30	V-20
Bromomethane	10.9	2.0	µg/L	10.00	ND	109		70-130	13.9	30	
2-Butanone (MEK)	75.0	20	µg/L	100.0	ND	75.0		70-130	4.71	30	
tert-Butyl Alcohol (TBA)	168	20	µg/L	100.0	69.1	99.3		70-130	1.54	30	
n-Butylbenzene	12.3	1.0	µg/L	10.00	1.47	109		70-130	1.64	30	
sec-Butylbenzene	13.3	1.0	µg/L	10.00	2.57	107		70-130	2.52	30	
tert-Butylbenzene	11.9	1.0	µg/L	10.00	0.790	111		70-130	3.59	30	
tert-Butyl Ethyl Ether (TBEE)	10.0	0.50	µg/L	10.00	ND	100		70-130	3.04	30	
Carbon Disulfide	95.9	5.0	µg/L	100.0	ND	95.9		70-130	5.74	30	
Carbon Tetrachloride	12.8	5.0	µg/L	10.00	ND	128		70-130	7.05	30	V-20
Chlorobenzene	11.5	1.0	µg/L	10.00	ND	115		70-130	2.11	30	
Chlorodibromomethane	11.3	0.50	µg/L	10.00	ND	113		70-130	0.965	30	
Chloroethane	8.74	2.0	µg/L	10.00	ND	87.4		70-130	1.61	30	
Chloroform	10.2	2.0	µg/L	10.00	ND	102		70-130	3.68	30	
Chloromethane	9.36	2.0	µg/L	10.00	ND	93.6		70-130	1.72	30	
Cyclohexane	11.4	5.0	µg/L	10.00	ND	114		70-130	4.95	30	
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.00	ND	102		70-130	2.04	30	
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.00	ND	104		70-130	0.483	30	
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.00	ND	112		70-130	3.72	30	
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.00	ND	112		70-130	7.87	30	
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.00	ND	108		70-130	3.00	30	
Dichlorodifluoromethane (Freon 12)	11.3	2.0	µg/L	10.00	ND	113		70-130	3.41	30	
1,1-Dichloroethane	10.7	1.0	µg/L	10.00	ND	107		70-130	9.51	30	
1,2-Dichloroethane	10.6	1.0	µg/L	10.00	ND	106		70-130	5.90	30	
1,1-Dichloroethylene	11.2	1.0	µg/L	10.00	ND	112		70-130	3.72	30	
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00	0.470	102		70-130	6.38	30	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00	ND	106		70-130	5.74	30	
1,2-Dichloropropane	10.1	1.0	µg/L	10.00	ND	101		70-130	4.14	30	
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00	ND	102		70-130	1.38	30	
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.00	ND	105		70-130	3.59	30	
Diisopropyl Ether (DIPE)	10.3	0.50	µg/L	10.00	0.290	100		70-130	2.66	30	
Ethanol	108	50	µg/L	100.0	ND	108		70-130	17.8	30	
Ethylbenzene	11.6	1.0	µg/L	10.00	ND	116		70-130	3.33	30	
2-Hexanone (MBK)	104	10	µg/L	100.0	ND	104		70-130	6.09	30	
Isopropylbenzene (Cumene)	15.2	1.0	µg/L	10.00	3.77	115		70-130	3.06	30	
p-Isopropyltoluene (p-Cymene)	24.9	1.0	µg/L	10.00	13.8	110		70-130	0.121	30	
Methyl Acetate	8.80	1.0	µg/L	10.00	ND	88.0		70-130	5.01	30	
Methyl tert-Butyl Ether (MTBE)	24.6	1.0	µg/L	10.00	16.4	82.2		70-130	0.568	30	
Methyl Cyclohexane	13.3	1.0	µg/L	10.00	1.88	115		70-130	3.43	30	
Methylene Chloride	10.2	5.0	µg/L	10.00	ND	102		70-130	3.08	30	
4-Methyl-2-pentanone (MIBK)	107	10	µg/L	100.0	ND	107		70-130	5.34	30	
Naphthalene	13.8	2.0	µg/L	10.00	ND	**138**	*	70-130	2.05	30	V-20, MS-15
n-Propylbenzene	14.6	1.0	µg/L	10.00	3.16	114		70-130	3.27	30	
Styrene	11.4	1.0	µg/L	10.00	ND	114		70-130	3.12	30	
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.00	ND	102		70-130	2.71	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 B392239 - SW-846 5030B											
Matrix Spike Dup (B392239-MSD1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/18/24							
Tetrachloroethylene	12.2	1.0	µg/L	10.00	ND	122		70-130	0.977	30	V-20
Toluene	11.2	1.0	µg/L	10.00	0.460	107		70-130	2.63	30	
1,2,3-Trichlorobenzene	15.1	5.0	µg/L	10.00	ND	**151**	*	70-130	3.37	30	V-20, MS-15
1,2,4-Trichlorobenzene	12.5	1.0	µg/L	10.00	ND	125		70-130	3.50	30	V-20
1,1,1-Trichloroethane	11.6	1.0	µg/L	10.00	ND	116		70-130	1.30	30	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.00	ND	103		70-130	4.56	30	
Trichloroethylene	11.8	1.0	µg/L	10.00	ND	118		70-130	5.30	30	
Trichlorofluoromethane (Freon 11)	12.3	2.0	µg/L	10.00	ND	123		70-130	2.56	30	
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00	ND	103		70-130	1.95	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.00	ND	108		70-130	3.40	30	
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.00	ND	105		70-130	2.21	30	
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.00	ND	116		70-130	5.11	30	
Vinyl Chloride	11.5	2.0	µg/L	10.00	0.760	108		70-130	5.89	30	
m+p Xylene	24.1	2.0	µg/L	20.00	1.47	113		70-130	1.13	20	
o-Xylene	12.1	1.0	µg/L	10.00	0.910	112		70-130	0.908	30	
Xylenes (total)	36.2	1.0	µg/L	30.00	2.38	113		0-200	0.443		
Surrogate: 1,2-Dichloroethane-d4	*26.5*		µg/L	25.00		106		70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.00		100		70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.00		102		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 B392242 - SW-846 3510C										
Blank (B392242-BLK1)				Prepared: 11/14/24 Analyzed: 11/19/24						
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							R-05
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							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 B392242 - SW-846 3510C											
Blank (B392242-BLK1)				Prepared: 11/14/24 Analyzed: 11/19/24							
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								V-05
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								R-05
4-Nitrophenol	ND	10	µg/L								R-05
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								R-05
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								R-05
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*190*		µg/L	400.0		47.5		15-110			
Surrogate: Phenol-d6	*125*		µg/L	400.0		31.2		15-110			
Surrogate: Nitrobenzene-d5	*156*		µg/L	200.0		77.8		30-130			
Surrogate: 2-Fluorobiphenyl	*140*		µg/L	200.0		69.8		30-130			
Surrogate: 2,4,6-Tribromophenol	*312*		µg/L	400.0		77.9		15-110			
Surrogate: p-Terphenyl-d14	*197*		µg/L	200.0		98.5		30-130			
LCS (B392242-BS1)				Prepared: 11/14/24 Analyzed: 11/19/24							
2,3,4,6-Tetrachlorophenol	57.2	20	µg/L	100.0		57.2		40-140			R-05
Atrazine	88.0	20	µg/L	100.0		88.0		40-140			
Benzaldehyde	82.9	10	µg/L	100.0		82.9		40-140			
Biphenyl	81.8	20	µg/L	100.0		81.8		40-140			
Caprolactam	27.6	10	µg/L	100.0		**27.6**	*	40-140			L-04
Acenaphthene	75.4	5.0	µg/L	100.0		75.4		40-140			
Acenaphthylene	84.5	5.0	µg/L	100.0		84.5		40-140			
Acetophenone	70.6	10	µg/L	100.0		70.6		40-140			
Aniline	68.0	20	µg/L	100.0		68.0		40-140			V-05
Anthracene	83.9	5.0	µg/L	100.0		83.9		40-140			
Benzo(a)anthracene	83.3	5.0	µg/L	100.0		83.3		40-140			
Benzo(a)pyrene	85.0	5.0	µg/L	100.0		85.0		40-140			
Benzo(b)fluoranthene	87.3	5.0	µg/L	100.0		87.3		40-140			
Benzo(g,h,i)perylene	93.7	5.0	µg/L	100.0		93.7		40-140			
Benzo(k)fluoranthene	86.6	5.0	µg/L	100.0		86.6		40-140			
Bis(2-chloroethoxy)methane	79.4	10	µg/L	100.0		79.4		40-140			
Bis(2-chloroethyl)ether	75.4	10	µg/L	100.0		75.4		40-140			
2,2'-oxybis(1-Chloropropane)	73.7	10	µg/L	100.0		73.7		40-140			
Bis(2-Ethylhexyl)phthalate	68.8	10	µg/L	100.0		68.8		40-140			
4-Bromophenylphenylether	87.0	10	µg/L	100.0		87.0		40-140			
Butylbenzylphthalate	82.0	10	µg/L	100.0		82.0		40-140			
Carbazole	81.2	10	µg/L	100.0		81.2		40-140			
4-Chloroaniline	77.6	10	µg/L	100.0		77.6		40-140			
4-Chloro-3-methylphenol	70.2	10	µg/L	100.0		70.2		30-130			
2-Chloronaphthalene	76.8	10	µg/L	100.0		76.8		40-140			
2-Chlorophenol	51.8	10	µg/L	100.0		51.8		30-130			R-05

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B392242 - SW-846 3510C												
LCS (B392242-BS1)				Prepared: 11/14/24 Analyzed: 11/19/24								
4-Chlorophenylphenylether	78.1	10	µg/L	100.0		78.1		40-140				
Chrysene	81.8	5.0	µg/L	100.0		81.8		40-140				
Dibenz(a,h)anthracene	88.7	5.0	µg/L	100.0		88.7		40-140			V-04	
Dibenzofuran	82.4	5.0	µg/L	100.0		82.4		40-140				
Di-n-butylphthalate	68.4	10	µg/L	100.0		68.4		40-140				
3,3-Dichlorobenzidine	86.5	10	µg/L	100.0		86.5		40-140				
2,4-Dichlorophenol	58.6	10	µg/L	100.0		58.6		30-130			R-05	
Diethylphthalate	73.5	10	µg/L	100.0		73.5		40-140				
2,4-Dimethylphenol	74.3	10	µg/L	100.0		74.3		30-130				
Dimethylphthalate	79.0	10	µg/L	100.0		79.0		40-140				
4,6-Dinitro-2-methylphenol	54.8	20	µg/L	100.0		54.8		30-130				
2,4-Dinitrophenol	26.3	10	µg/L	100.0		**26.3**	*	30-130			V-04, L-07A	
2,4-Dinitrotoluene	74.8	10	µg/L	100.0		74.8		40-140				
2,6-Dinitrotoluene	84.0	10	µg/L	100.0		84.0		40-140				
Di-n-octylphthalate	70.0	10	µg/L	100.0		70.0		40-140			V-04	
Fluoranthene	77.2	5.0	µg/L	100.0		77.2		40-140				
Fluorene	81.4	5.0	µg/L	100.0		81.4		40-140				
Hexachlorobenzene	86.1	10	µg/L	100.0		86.1		40-140				
Hexachlorobutadiene	63.8	10	µg/L	100.0		63.8		40-140				
Hexachlorocyclopentadiene	83.6	10	µg/L	100.0		83.6		30-140				†
Hexachloroethane	51.4	10	µg/L	100.0		51.4		40-140				
Indeno(1,2,3-cd)pyrene	92.4	5.0	µg/L	100.0		92.4		40-140			V-04	
Isophorone	82.0	10	µg/L	100.0		82.0		40-140				
1-Methylnaphthalene	68.4	5.0	µg/L	100.0		68.4		40-140				
2-Methylnaphthalene	69.1	5.0	µg/L	100.0		69.1		40-140				
2-Methylphenol	64.4	10	µg/L	100.0		64.4		30-130				
3/4-Methylphenol	58.0	10	µg/L	100.0		58.0		30-130				
Naphthalene	70.4	5.0	µg/L	100.0		70.4		40-140				
2-Nitroaniline	91.0	10	µg/L	100.0		91.0		40-140				
3-Nitroaniline	78.6	10	µg/L	100.0		78.6		40-140				
4-Nitroaniline	71.5	10	µg/L	100.0		71.5		40-140			V-05	
Nitrobenzene	80.7	10	µg/L	100.0		80.7		40-140				
2-Nitrophenol	53.2	10	µg/L	100.0		53.2		30-130			R-05	
4-Nitrophenol	22.1	10	µg/L	100.0		22.1		10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	84.6	10	µg/L	100.0		84.6		40-140				
N-Nitrosodi-n-propylamine	66.4	10	µg/L	100.0		66.4		40-140				
Pentachlorophenol	43.9	10	µg/L	100.0		43.9		30-130				
Phenanthrene	82.3	5.0	µg/L	100.0		82.3		40-140				
Phenol	29.6	10	µg/L	100.0		29.6		20-130			R-05	†
Pyrene	97.6	5.0	µg/L	100.0		97.6		40-140				
Pyridine	21.9	20	µg/L	100.0		21.9		10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	83.8	10	µg/L	100.0		83.8		40-140				
2,4,5-Trichlorophenol	59.7	10	µg/L	100.0		59.7		30-130			R-05	
2,4,6-Trichlorophenol	53.3	10	µg/L	100.0		53.3		30-130				
Surrogate: 2-Fluorophenol	*158*		µg/L	400.0		39.5		15-110				
Surrogate: Phenol-d6	*129*		µg/L	400.0		32.1		15-110				
Surrogate: Nitrobenzene-d5	*188*		µg/L	200.0		94.1		30-130				
Surrogate: 2-Fluorobiphenyl	*171*		µg/L	200.0		85.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*246*		µg/L	400.0		61.4		15-110				
Surrogate: p-Terphenyl-d14	*206*		µg/L	200.0		103		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 B392242 - SW-846 3510C													
LCS Dup (B392242-BSD1)				Prepared: 11/14/24 Analyzed: 11/19/24									
2,3,4,6-Tetrachlorophenol	99.6	20	µg/L	100.0		99.6		40-140	**54.0**	*	20	R-05	
Atrazine	90.2	20	µg/L	100.0		90.2		40-140	2.45		20		
Benzaldehyde	85.6	10	µg/L	100.0		85.6		40-140	3.25		20		
Biphenyl	81.0	20	µg/L	100.0		81.0		40-140	0.996		20		
Caprolactam	31.1	10	µg/L	100.0		**31.1**	*	40-140	12.1		20	L-04	
Acenaphthene	80.0	5.0	µg/L	100.0		80.0		40-140	5.83		20		
Acenaphthylene	85.6	5.0	µg/L	100.0		85.6		40-140	1.20		20		
Acetophenone	73.5	10	µg/L	100.0		73.5		40-140	4.01		20		
Aniline	57.9	20	µg/L	100.0		57.9		40-140	16.1		50	V-05	‡
Anthracene	86.4	5.0	µg/L	100.0		86.4		40-140	2.92		20		
Benzo(a)anthracene	84.1	5.0	µg/L	100.0		84.1		40-140	0.943		20		
Benzo(a)pyrene	85.6	5.0	µg/L	100.0		85.6		40-140	0.715		20		
Benzo(b)fluoranthene	91.7	5.0	µg/L	100.0		91.7		40-140	4.89		20		
Benzo(g,h,i)perylene	89.2	5.0	µg/L	100.0		89.2		40-140	4.98		20		
Benzo(k)fluoranthene	90.4	5.0	µg/L	100.0		90.4		40-140	4.36		20		
Bis(2-chloroethoxy)methane	82.4	10	µg/L	100.0		82.4		40-140	3.66		20		
Bis(2-chloroethyl)ether	76.4	10	µg/L	100.0		76.4		40-140	1.36		20		
2,2'-oxybis(1-Chloropropane)	75.9	10	µg/L	100.0		75.9		40-140	3.01		20		
Bis(2-Ethylhexyl)phthalate	71.2	10	µg/L	100.0		71.2		40-140	3.46		20		
4-Bromophenylphenylether	88.1	10	µg/L	100.0		88.1		40-140	1.20		20		
Butylbenzylphthalate	86.6	10	µg/L	100.0		86.6		40-140	5.42		20		
Carbazole	81.7	10	µg/L	100.0		81.7		40-140	0.639		20		
4-Chloroaniline	79.5	10	µg/L	100.0		79.5		40-140	2.45		20		
4-Chloro-3-methylphenol	79.2	10	µg/L	100.0		79.2		30-130	12.1		20		
2-Chloronaphthalene	72.5	10	µg/L	100.0		72.5		40-140	5.77		20		
2-Chlorophenol	74.5	10	µg/L	100.0		74.5		30-130	**36.0**	*	20	R-05	
4-Chlorophenylphenylether	82.0	10	µg/L	100.0		82.0		40-140	4.92		20		
Chrysene	82.0	5.0	µg/L	100.0		82.0		40-140	0.244		20		
Dibenz(a,h)anthracene	86.8	5.0	µg/L	100.0		86.8		40-140	2.23		20	V-04	
Dibenzofuran	84.9	5.0	µg/L	100.0		84.9		40-140	3.03		20		
Di-n-butylphthalate	72.1	10	µg/L	100.0		72.1		40-140	5.38		20		
3,3-Dichlorobenzidine	83.8	10	µg/L	100.0		83.8		40-140	3.19		20		
2,4-Dichlorophenol	84.5	10	µg/L	100.0		84.5		30-130	**36.2**	*	20	R-05	
Diethylphthalate	74.1	10	µg/L	100.0		74.1		40-140	0.799		20		
2,4-Dimethylphenol	74.0	10	µg/L	100.0		74.0		30-130	0.405		20		
Dimethylphthalate	80.8	10	µg/L	100.0		80.8		40-140	2.22		50		‡
4,6-Dinitro-2-methylphenol	83.0	20	µg/L	100.0		83.0		30-130	40.8		50		‡
2,4-Dinitrophenol	56.9	10	µg/L	100.0		56.9		30-130	**73.7**	*	50	R-05, V-04	‡
2,4-Dinitrotoluene	82.3	10	µg/L	100.0		82.3		40-140	9.46		20		
2,6-Dinitrotoluene	84.7	10	µg/L	100.0		84.7		40-140	0.830		20		
Di-n-octylphthalate	74.2	10	µg/L	100.0		74.2		40-140	5.73		20	V-04	
Fluoranthene	80.2	5.0	µg/L	100.0		80.2		40-140	3.81		20		
Fluorene	82.1	5.0	µg/L	100.0		82.1		40-140	0.905		20		
Hexachlorobenzene	90.0	10	µg/L	100.0		90.0		40-140	4.42		20		
Hexachlorobutadiene	69.6	10	µg/L	100.0		69.6		40-140	8.71		20		
Hexachlorocyclopentadiene	86.4	10	µg/L	100.0		86.4		30-140	3.36		50		† ‡
Hexachloroethane	58.6	10	µg/L	100.0		58.6		40-140	13.1		50		‡
Indeno(1,2,3-cd)pyrene	88.7	5.0	µg/L	100.0		88.7		40-140	4.12		50	V-04	‡
Isophorone	84.9	10	µg/L	100.0		84.9		40-140	3.52		20		
1-Methylnaphthalene	73.3	5.0	µg/L	100.0		73.3		40-140	6.84		20		
2-Methylnaphthalene	73.4	5.0	µg/L	100.0		73.4		40-140	5.98		20		
2-Methylphenol	68.7	10	µg/L	100.0		68.7		30-130	6.45		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 B392242 - SW-846 3510C												
LCS Dup (B392242-BSD1)				Prepared: 11/14/24 Analyzed: 11/19/24								
3/4-Methylphenol	64.2	10	µg/L	100.0		64.2	30-130	10.1		20		
Naphthalene	73.2	5.0	µg/L	100.0		73.2	40-140	3.94		20		
2-Nitroaniline	93.0	10	µg/L	100.0		93.0	40-140	2.13		20		
3-Nitroaniline	77.2	10	µg/L	100.0		77.2	40-140	1.86		20		
4-Nitroaniline	71.0	10	µg/L	100.0		71.0	40-140	0.716		20	V-05	
Nitrobenzene	84.1	10	µg/L	100.0		84.1	40-140	4.15		20		
2-Nitrophenol	79.6	10	µg/L	100.0		79.6	30-130	**39.8**	*	20	R-05	
4-Nitrophenol	43.1	10	µg/L	100.0		43.1	10-130	**64.3**	*	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	87.5	10	µg/L	100.0		87.5	40-140	3.32		20		
N-Nitrosodi-n-propylamine	71.1	10	µg/L	100.0		71.1	40-140	6.79		20		
Pentachlorophenol	72.9	10	µg/L	100.0		72.9	30-130	49.7		50		‡
Phenanthrene	84.5	5.0	µg/L	100.0		84.5	40-140	2.63		20		
Phenol	40.9	10	µg/L	100.0		40.9	20-130	**31.9**	*	20	R-05	†
Pyrene	102	5.0	µg/L	100.0		102	40-140	4.55		20		
Pyridine	16.9	20	µg/L	100.0		16.9	10-140	25.7		50	V-34, J	† ‡
1,2,4,5-Tetrachlorobenzene	86.0	10	µg/L	100.0		86.0	40-140	2.65		20		
2,4,5-Trichlorophenol	85.1	10	µg/L	100.0		85.1	30-130	**35.1**	*	20	R-05	
2,4,6-Trichlorophenol	87.1	10	µg/L	100.0		87.1	30-130	48.1		50		‡
Surrogate: 2-Fluorophenol	*235*		µg/L	400.0		58.8	15-110					
Surrogate: Phenol-d6	*168*		µg/L	400.0		42.1	15-110					
Surrogate: Nitrobenzene-d5	*182*		µg/L	200.0		91.1	30-130					
Surrogate: 2-Fluorobiphenyl	*168*		µg/L	200.0		83.8	30-130					
Surrogate: 2,4,6-Tribromophenol	*346*		µg/L	400.0		86.5	15-110					
Surrogate: p-Terphenyl-d14	*199*		µg/L	200.0		99.3	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 B392184 - SW-846 3510C										
Blank (B392184-BLK1)				Prepared: 11/14/24 Analyzed: 11/18/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.72*		µg/L	10.00		27.2	15-110			
LCS (B392184-BS1)				Prepared: 11/14/24 Analyzed: 11/18/24						
1,4-Dioxane	11.7	0.20	µg/L	10.00		117	40-140			
Surrogate: 1,4-Dioxane-d8	*2.81*		µg/L	10.00		28.1	15-110			
LCS Dup (B392184-BSD1)				Prepared: 11/14/24 Analyzed: 11/18/24						
1,4-Dioxane	12.5	0.20	µg/L	10.00		125	40-140	6.75	30	
Surrogate: 1,4-Dioxane-d8	*2.32*		µg/L	10.00		23.2	15-110			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393458 - EPA 1633										
Blank (B393458-BLK1)				Prepared: 12/04/24 Analyzed: 12/07/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	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	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*77.6*		ng/L	78.94		98.3	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 B393458 - EPA 1633										
Blank (B393458-BLK1)				Prepared: 12/04/24 Analyzed: 12/07/24						
Surrogate: 13C5-PFPeA	*38.2*		ng/L	39.47		96.9	40-130			
Surrogate: 13C5-PFHxA	*19.0*		ng/L	19.73		96.1	40-130			
Surrogate: 13C4-PFHpA	*18.4*		ng/L	19.73		93.4	40-130			
Surrogate: 13C8-PFOA	*20.1*		ng/L	19.73		102	40-130			
Surrogate: 13C9-PFNA	*9.59*		ng/L	9.867		97.2	40-130			
Surrogate: 13C6-PFDA	*10.5*		ng/L	9.867		106	40-130			
Surrogate: 13C7-PFUnA	*10.6*		ng/L	9.867		108	30-130			
Surrogate: 13C2-PFDoA	*10.7*		ng/L	9.867		108	10-130			
Surrogate: 13C2-PFTeDA	*10.3*		ng/L	9.867		105	10-130			
Surrogate: 13C3-PFBS	*19.8*		ng/L	19.73		100	40-135			
Surrogate: 13C3-PFHxS	*19.6*		ng/L	19.73		99.2	40-130			
Surrogate: 13C8-PFOS	*20.6*		ng/L	19.73		104	40-130			
Surrogate: 13C2-4:2FTS	*44.4*		ng/L	39.47		113	40-200			
Surrogate: 13C2-6:2FTS	*44.1*		ng/L	39.47		112	40-200			
Surrogate: 13C2-8:2FTS	*42.4*		ng/L	39.47		107	40-300			
Surrogate: 13C8-PFOSA	*17.1*		ng/L	19.73		86.6	40-130			
Surrogate: D3-NMeFOSA	*12.2*		ng/L	19.73		62.0	10-130			
Surrogate: D5-NEtFOSA	*12.0*		ng/L	19.73		60.9	10-130			
Surrogate: D3-NMeFOSAA	*47.5*		ng/L	39.47		120	40-170			
Surrogate: D5-NEtFOSAA	*49.3*		ng/L	39.47		125	25-135			
Surrogate: D7-NMeFOSE	*149*		ng/L	197.3		75.5	10-130			
Surrogate: D9-NEtFOSE	*147*		ng/L	197.3		74.6	10-130			
Surrogate: 13C3-HFPO-DA	*84.6*		ng/L	78.94		107	40-130			
LCS (B393458-BS1)				Prepared: 12/04/24 Analyzed: 12/07/24						
Perfluorobutanoic acid (PFBA)	79.3	6.3	ng/L	79.13		100	70-140			
Perfluoropentanoic acid (PFPeA)	40.7	3.2	ng/L	39.57		103	65-135			
Perfluorohexanoic acid (PFHxA)	20.1	1.6	ng/L	19.78		102	70-145			
Perfluoroheptanoic acid (PFHpA)	18.8	1.6	ng/L	19.78		95.1	70-150			
Perfluorooctanoic acid (PFOA)	20.4	1.6	ng/L	19.78		103	70-150			
Perfluorononanoic acid (PFNA)	19.7	1.6	ng/L	19.78		99.4	70-150			
Perfluorodecanoic acid (PFDA)	19.7	1.6	ng/L	19.78		99.3	70-140			
Perfluoroundecanoic acid (PFUnA)	20.4	1.6	ng/L	19.78		103	70-145			
Perfluorododecanoic acid (PFDoA)	19.8	1.6	ng/L	19.78		100	70-140			
Perfluorotridecanoic acid (PFTrDA)	20.8	1.6	ng/L	19.78		105	65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.4	1.6	ng/L	19.78		103	60-140			
Perfluorobutanesulfonic acid (PFBS)	17.5	1.6	ng/L	17.57		99.6	60-145			
Perfluoropentanesulfonic acid (PFPeS)	19.9	1.6	ng/L	18.60		107	65-140			
Perfluorohexanesulfonic acid (PFHxS)	16.7	1.6	ng/L	18.04		92.3	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	18.6	1.6	ng/L	18.83		98.9	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.5	1.6	ng/L	18.36		95.5	55-150			
Perfluorononanesulfonic acid (PFNS)	19.2	1.6	ng/L	18.99		101	65-145			
Perfluorodecanesulfonic acid (PFDS)	18.1	1.6	ng/L	19.07		94.8	60-145			
Perfluorododecanesulfonic acid (PFDoS)	18.1	1.6	ng/L	19.15		94.3	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	79.1	6.3	ng/L	74.15		107	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	78.7	6.3	ng/L	75.26		105	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.3	6.3	ng/L	75.97		111	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.6	1.6	ng/L	19.78		99.3	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	20.3	1.6	ng/L	19.78		103	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 B393458 - EPA 1633										
LCS (B393458-BS1)				Prepared: 12/04/24 Analyzed: 12/07/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.9	1.6	ng/L	19.78		101	65-145			
N-MeFOSAA (NMeFOSAA)	17.5	1.6	ng/L	19.78		88.3	50-140			
N-EtFOSAA (NEtFOSAA)	17.6	1.6	ng/L	19.78		89.1	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	193	16	ng/L	197.8		97.6	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	196	16	ng/L	197.8		99.2	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.6	6.3	ng/L	79.13		102	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	75.3	6.3	ng/L	74.78		101	65-145			
9Cl-PF3ONS (F53B Minor)	72.7	6.3	ng/L	73.83		98.5	70-155			
11Cl-PF3OUdS (F53B Major)	76.6	6.3	ng/L	73.91		104	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	80.8	7.9	ng/L	98.92		81.7	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	438	40	ng/L	494.6		88.5	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	457	40	ng/L	494.6		92.5	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	36.6	3.2	ng/L	35.29		104	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	37.8	3.2	ng/L	39.57		95.4	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.1	3.2	ng/L	39.57		104	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	45.1	3.2	ng/L	39.57		114	50-150			
Surrogate: 13C4-PFBA	*71.3*		ng/L	79.13		90.1	5-130			
Surrogate: 13C5-PFPeA	*34.2*		ng/L	39.57		86.5	40-130			
Surrogate: 13C5-PFHxA	*17.3*		ng/L	19.78		87.4	40-130			
Surrogate: 13C4-PFHpA	*16.6*		ng/L	19.78		83.9	40-130			
Surrogate: 13C8-PFOA	*17.2*		ng/L	19.78		86.9	40-130			
Surrogate: 13C9-PFNA	*8.75*		ng/L	9.892		88.5	40-130			
Surrogate: 13C6-PFDA	*9.23*		ng/L	9.892		93.3	40-130			
Surrogate: 13C7-PFUnA	*9.05*		ng/L	9.892		91.5	30-130			
Surrogate: 13C2-PFDoA	*8.83*		ng/L	9.892		89.3	10-130			
Surrogate: 13C2-PFTeDA	*8.84*		ng/L	9.892		89.4	10-130			
Surrogate: 13C3-PFBS	*17.7*		ng/L	19.78		89.3	40-135			
Surrogate: 13C3-PFHxS	*17.0*		ng/L	19.78		86.1	40-130			
Surrogate: 13C8-PFOS	*18.2*		ng/L	19.78		91.9	40-130			
Surrogate: 13C2-4:2FTS	*38.4*		ng/L	39.57		97.0	40-200			
Surrogate: 13C2-6:2FTS	*40.0*		ng/L	39.57		101	40-200			
Surrogate: 13C2-8:2FTS	*35.7*		ng/L	39.57		90.3	40-300			
Surrogate: 13C8-PFOSA	*15.8*		ng/L	19.78		79.9	40-130			
Surrogate: D3-NMeFOSA	*11.5*		ng/L	19.78		58.2	10-130			
Surrogate: D5-NEtFOSA	*11.6*		ng/L	19.78		58.5	10-130			
Surrogate: D3-NMeFOSAA	*43.5*		ng/L	39.57		110	40-170			
Surrogate: D5-NEtFOSAA	*43.6*		ng/L	39.57		110	25-135			
Surrogate: D7-NMeFOSE	*147*		ng/L	197.8		74.3	10-130			
Surrogate: D9-NEtFOSE	*146*		ng/L	197.8		74.0	10-130			
Surrogate: 13C3-HFPO-DA	*72.5*		ng/L	79.13		91.6	40-130			
MRL Check (B393458-MRL1)				Prepared: 12/04/24 Analyzed: 12/07/24						
Perfluorobutanoic acid (PFBA)	6.01	6.3	ng/L	6.336		94.9	70-140			J
Perfluoropentanoic acid (PFPeA)	3.02	3.2	ng/L	3.168		95.2	65-135			J

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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 B393458 - EPA 1633										
MRL Check (B393458-MRL1)				Prepared: 12/04/24 Analyzed: 12/07/24						
Perfluorohexanoic acid (PFHxA)	1.45	1.6	ng/L	1.584		91.4	70-145			J
Perfluoroheptanoic acid (PFHpA)	1.29	1.6	ng/L	1.584		81.7	70-150			J
Perfluorooctanoic acid (PFOA)	1.58	1.6	ng/L	1.584		100	70-150			J
Perfluorononanoic acid (PFNA)	1.50	1.6	ng/L	1.584		94.6	70-150			J
Perfluorodecanoic acid (PFDA)	1.64	1.6	ng/L	1.584		104	70-140			
Perfluoroundecanoic acid (PFUnA)	1.35	1.6	ng/L	1.584		85.4	70-145			J
Perfluorododecanoic acid (PFDoA)	1.35	1.6	ng/L	1.584		85.1	70-140			J
Perfluorotridecanoic acid (PFTrDA)	1.46	1.6	ng/L	1.584		91.9	65-140			J
Perfluorotetradecanoic acid (PFTeDA)	1.36	1.6	ng/L	1.584		85.9	60-140			J
Perfluorobutanesulfonic acid (PFBS)	1.22	1.6	ng/L	1.407		86.5	60-145			J
Perfluoropentanesulfonic acid (PFPeS)	1.33	1.6	ng/L	1.489		89.5	65-140			J
Perfluorohexanesulfonic acid (PFHxS)	1.38	1.6	ng/L	1.445		95.4	65-145			J
Perfluoroheptanesulfonic acid (PFHpS)	1.50	1.6	ng/L	1.508		99.8	70-150			J
Perfluorooctanesulfonic acid (PFOS)	1.31	1.6	ng/L	1.470		88.8	55-150			J
Perfluorononanesulfonic acid (PFNS)	1.39	1.6	ng/L	1.521		91.5	65-145			J
Perfluorodecanesulfonic acid (PFDS)	1.52	1.6	ng/L	1.527		99.2	60-145			J
Perfluorododecanesulfonic acid (PFDoS)	1.54	1.6	ng/L	1.533		100	50-145			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.85	6.3	ng/L	5.936		98.5	70-145			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.15	6.3	ng/L	6.025		102	65-155			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.70	6.3	ng/L	6.082		93.7	60-150			J
Perfluorooctanesulfonamide (PFOSA)	1.49	1.6	ng/L	1.584		93.8	70-145			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.25	1.6	ng/L	1.584		78.9	60-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.42	1.6	ng/L	1.584		89.8	65-145			J
N-MeFOSAA (NMeFOSAA)	1.26	1.6	ng/L	1.584		79.8	50-140			J
N-EtFOSAA (NEtFOSAA)	1.73	1.6	ng/L	1.584		109	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	14.0	16	ng/L	15.84		88.6	70-145			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	13.6	16	ng/L	15.84		85.8	70-135			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.13	6.3	ng/L	6.336		96.8	70-140			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.78	6.3	ng/L	5.987		96.6	65-145			J
9Cl-PF3ONS (F53B Minor)	5.63	6.3	ng/L	5.911		95.3	70-155			J
11Cl-PF3OUdS (F53B Major)	5.68	6.3	ng/L	5.974		95.1	55-160			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	5.81	7.9	ng/L	7.920		73.4	65-130			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	33.5	40	ng/L	39.60		84.6	70-135			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	31.2	40	ng/L	39.60		78.7	50-145			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.62	3.2	ng/L	2.826		92.6	70-140			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.89	3.2	ng/L	3.168		91.3	55-140			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.18	3.2	ng/L	3.168		100	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.86	3.2	ng/L	3.168		122	50-150			
Surrogate: 13C4-PFBA	*69.3*		ng/L	79.20		87.5	5-130			
Surrogate: 13C5-PFPeA	*34.7*		ng/L	39.60		87.6	40-130			
Surrogate: 13C5-PFHxA	*17.2*		ng/L	19.80		86.9	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 B393458 - EPA 1633										
MRL Check (B393458-MRL1)				Prepared: 12/04/24 Analyzed: 12/07/24						
Surrogate: 13C4-PFHpA	*16.9*		ng/L	19.80		85.3	40-130			
Surrogate: 13C8-PFOA	*18.0*		ng/L	19.80		90.7	40-130			
Surrogate: 13C9-PFNA	*8.52*		ng/L	9.899		86.1	40-130			
Surrogate: 13C6-PFDA	*8.87*		ng/L	9.899		89.6	40-130			
Surrogate: 13C7-PFUnA	*9.09*		ng/L	9.899		91.9	30-130			
Surrogate: 13C2-PFDoA	*8.75*		ng/L	9.899		88.4	10-130			
Surrogate: 13C2-PFTeDA	*8.74*		ng/L	9.899		88.3	10-130			
Surrogate: 13C3-PFBS	*16.8*		ng/L	19.80		84.8	40-135			
Surrogate: 13C3-PFHxS	*16.7*		ng/L	19.80		84.5	40-130			
Surrogate: 13C8-PFOS	*16.8*		ng/L	19.80		84.8	40-130			
Surrogate: 13C2-4:2FTS	*35.9*		ng/L	39.60		90.6	40-200			
Surrogate: 13C2-6:2FTS	*35.8*		ng/L	39.60		90.3	40-200			
Surrogate: 13C2-8:2FTS	*35.1*		ng/L	39.60		88.6	40-300			
Surrogate: 13C8-PFOSA	*14.3*		ng/L	19.80		72.4	40-130			
Surrogate: D3-NMeFOSA	*10.6*		ng/L	19.80		53.8	10-130			
Surrogate: D5-NEtFOSA	*10.1*		ng/L	19.80		50.9	10-130			
Surrogate: D3-NMeFOSAA	*43.6*		ng/L	39.60		110	40-170			
Surrogate: D5-NEtFOSAA	*40.8*		ng/L	39.60		103	25-135			
Surrogate: D7-NMeFOSE	*126*		ng/L	198.0		63.8	10-130			
Surrogate: D9-NEtFOSE	*127*		ng/L	198.0		64.3	10-130			
Surrogate: 13C3-HFPO-DA	*74.7*		ng/L	79.20		94.4	40-130			
Batch B394053 - EPA 1633										
Blank (B394053-BLK1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	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							

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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 B394053 - EPA 1633										
Blank (B394053-BLK1)				Prepared: 12/09/24 Analyzed: 12/11/24						
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	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*73.1*		ng/L	79.10		92.4	5-130			
Surrogate: 13C5-PFPeA	*34.2*		ng/L	39.55		86.5	40-130			
Surrogate: 13C5-PFHxA	*18.0*		ng/L	19.77		91.2	40-130			
Surrogate: 13C4-PFHpA	*17.4*		ng/L	19.77		87.8	40-130			
Surrogate: 13C8-PFOA	*18.8*		ng/L	19.77		94.8	40-130			
Surrogate: 13C9-PFNA	*9.09*		ng/L	9.887		91.9	40-130			
Surrogate: 13C6-PFDA	*8.80*		ng/L	9.887		89.0	40-130			
Surrogate: 13C7-PFUnA	*8.79*		ng/L	9.887		88.9	30-130			
Surrogate: 13C2-PFDoA	*8.39*		ng/L	9.887		84.9	10-130			
Surrogate: 13C2-PFTeDA	*7.86*		ng/L	9.887		79.5	10-130			
Surrogate: 13C3-PFBS	*17.0*		ng/L	19.77		85.7	40-135			
Surrogate: 13C3-PFHxS	*16.6*		ng/L	19.77		83.8	40-130			
Surrogate: 13C8-PFOS	*17.6*		ng/L	19.77		88.9	40-130			
Surrogate: 13C2-4:2FTS	*39.0*		ng/L	39.55		98.6	40-200			
Surrogate: 13C2-6:2FTS	*36.9*		ng/L	39.55		93.4	40-200			
Surrogate: 13C2-8:2FTS	*34.2*		ng/L	39.55		86.4	40-300			
Surrogate: 13C8-PFOSA	*15.9*		ng/L	19.77		80.6	40-130			
Surrogate: D3-NMeFOSA	*15.0*		ng/L	19.77		75.6	10-130			
Surrogate: D5-NEtFOSA	*14.2*		ng/L	19.77		71.7	10-130			
Surrogate: D3-NMeFOSAA	*40.0*		ng/L	39.55		101	40-170			
Surrogate: D5-NEtFOSAA	*41.5*		ng/L	39.55		105	25-135			
Surrogate: D7-NMeFOSE	*153*		ng/L	197.7		77.2	10-130			
Surrogate: D9-NEtFOSE	*150*		ng/L	197.7		75.9	10-130			
Surrogate: 13C3-HFPO-DA	*78.1*		ng/L	79.10		98.8	40-130			
LCS (B394053-BS1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorobutanoic acid (PFBA)	87.6	6.3	ng/L	79.24		110	70-140			
Perfluoropentanoic acid (PFPeA)	45.6	3.2	ng/L	39.62		115	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 B394053 - EPA 1633										
LCS (B394053-BS1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorohexanoic acid (PFHxA)	22.5	1.6	ng/L	19.81		114	70-145			
Perfluoroheptanoic acid (PFHpA)	20.5	1.6	ng/L	19.81		103	70-150			
Perfluorooctanoic acid (PFOA)	21.1	1.6	ng/L	19.81		106	70-150			
Perfluorononanoic acid (PFNA)	21.5	1.6	ng/L	19.81		109	70-150			
Perfluorodecanoic acid (PFDA)	21.3	1.6	ng/L	19.81		108	70-140			
Perfluoroundecanoic acid (PFUnA)	23.0	1.6	ng/L	19.81		116	70-145			
Perfluorododecanoic acid (PFDoA)	20.9	1.6	ng/L	19.81		105	70-140			
Perfluorotridecanoic acid (PFTrDA)	21.9	1.6	ng/L	19.81		111	65-140			
Perfluorotetradecanoic acid (PFTeDA)	22.2	1.6	ng/L	19.81		112	60-140			
Perfluorobutanesulfonic acid (PFBS)	19.6	1.6	ng/L	19.81		98.8	60-145			
Perfluoropentanesulfonic acid (PFPeS)	22.2	1.6	ng/L	19.81		112	65-140			
Perfluorohexanesulfonic acid (PFHxS)	19.3	1.6	ng/L	19.81		97.6	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	21.2	1.6	ng/L	19.81		107	70-150			
Perfluorooctanesulfonic acid (PFOS)	19.6	1.6	ng/L	19.81		99.0	55-150			
Perfluorononanesulfonic acid (PFNS)	20.7	1.6	ng/L	19.81		104	65-145			
Perfluorodecanesulfonic acid (PFDS)	20.3	1.6	ng/L	19.81		103	60-145			
Perfluorododecanesulfonic acid (PFDoS)	18.7	1.6	ng/L	19.81		94.3	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.0	6.3	ng/L	79.24		114	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.1	6.3	ng/L	79.24		119	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.3	6.3	ng/L	79.24		111	60-150			
Perfluorooctanesulfonamide (PFOSA)	21.9	1.6	ng/L	19.81		111	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.0	1.6	ng/L	19.81		111	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.0	1.6	ng/L	19.81		106	65-145			
N-MeFOSAA (NMeFOSAA)	20.2	1.6	ng/L	19.81		102	50-140			
N-EtFOSAA (NEtFOSAA)	19.0	1.6	ng/L	19.81		95.7	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	216	16	ng/L	198.1		109	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	216	16	ng/L	198.1		109	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	90.0	6.3	ng/L	79.24		114	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	83.7	6.3	ng/L	79.24		106	65-145			
9Cl-PF3ONS (F53B Minor)	82.8	6.3	ng/L	79.24		104	70-155			
11Cl-PF3OUdS (F53B Major)	82.9	6.3	ng/L	79.24		105	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	97.5	7.9	ng/L	99.05		98.5	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	533	40	ng/L	495.3		108	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	547	40	ng/L	495.3		110	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	39.4	3.2	ng/L	39.62		99.6	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	41.4	3.2	ng/L	39.62		104	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	44.6	3.2	ng/L	39.62		113	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	46.6	3.2	ng/L	39.62		118	50-150			
Surrogate: 13C4-PFBA	*61.2*		ng/L	79.24		77.2	5-130			
Surrogate: 13C5-PFPeA	*30.0*		ng/L	39.62		75.7	40-130			
Surrogate: 13C5-PFHxA	*15.0*		ng/L	19.81		75.9	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 B394053 - EPA 1633										
LCS (B394053-BS1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Surrogate: 13C4-PFHpA	*14.5*		ng/L	19.81		73.2	40-130			
Surrogate: 13C8-PFOA	*14.8*		ng/L	19.81		74.5	40-130			
Surrogate: 13C9-PFNA	*7.33*		ng/L	9.905		74.0	40-130			
Surrogate: 13C6-PFDA	*7.57*		ng/L	9.905		76.5	40-130			
Surrogate: 13C7-PFUnA	*6.99*		ng/L	9.905		70.6	30-130			
Surrogate: 13C2-PFDoA	*7.27*		ng/L	9.905		73.4	10-130			
Surrogate: 13C2-PFTeDA	*7.03*		ng/L	9.905		71.0	10-130			
Surrogate: 13C3-PFBS	*14.6*		ng/L	19.81		73.8	40-135			
Surrogate: 13C3-PFHxS	*13.8*		ng/L	19.81		69.6	40-130			
Surrogate: 13C8-PFOS	*14.0*		ng/L	19.81		70.8	40-130			
Surrogate: 13C2-4:2FTS	*32.3*		ng/L	39.62		81.6	40-200			
Surrogate: 13C2-6:2FTS	*28.1*		ng/L	39.62		71.0	40-200			
Surrogate: 13C2-8:2FTS	*28.9*		ng/L	39.62		73.0	40-300			
Surrogate: 13C8-PFOSA	*14.0*		ng/L	19.81		70.7	40-130			
Surrogate: D3-NMeFOSA	*12.1*		ng/L	19.81		61.2	10-130			
Surrogate: D5-NEtFOSA	*12.7*		ng/L	19.81		64.2	10-130			
Surrogate: D3-NMeFOSAA	*33.8*		ng/L	39.62		85.4	40-170			
Surrogate: D5-NEtFOSAA	*35.8*		ng/L	39.62		90.5	25-135			
Surrogate: D7-NMeFOSE	*133*		ng/L	198.1		67.2	10-130			
Surrogate: D9-NEtFOSE	*131*		ng/L	198.1		66.1	10-130			
Surrogate: 13C3-HFPO-DA	*66.1*		ng/L	79.24		83.4	40-130			
MRL Check (B394053-MRL1)				Prepared: 12/09/24 Analyzed: 12/11/24						
Perfluorobutanoic acid (PFBA)	13.2	6.3	ng/L	12.66		104	70-140			
Perfluoropentanoic acid (PFPeA)	6.81	3.2	ng/L	6.331		108	65-135			
Perfluorohexanoic acid (PFHxA)	3.19	1.6	ng/L	3.166		101	70-145			
Perfluoroheptanoic acid (PFHpA)	3.14	1.6	ng/L	3.166		99.3	70-150			
Perfluorooctanoic acid (PFOA)	3.34	1.6	ng/L	3.166		105	70-150			
Perfluorononanoic acid (PFNA)	3.23	1.6	ng/L	3.166		102	70-150			
Perfluorodecanoic acid (PFDA)	3.36	1.6	ng/L	3.166		106	70-140			
Perfluoroundecanoic acid (PFUnA)	3.22	1.6	ng/L	3.166		102	70-145			
Perfluorododecanoic acid (PFDoA)	3.29	1.6	ng/L	3.166		104	70-140			
Perfluorotridecanoic acid (PFTrDA)	3.32	1.6	ng/L	3.166		105	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.25	1.6	ng/L	3.166		103	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.95	1.6	ng/L	2.811		105	60-145			
Perfluoropentanesulfonic acid (PFPeS)	3.30	1.6	ng/L	2.976		111	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.87	1.6	ng/L	2.887		99.4	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	3.11	1.6	ng/L	3.014		103	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.95	1.6	ng/L	2.938		100	55-150			
Perfluorononanesulfonic acid (PFNS)	3.08	1.6	ng/L	3.039		101	65-145			
Perfluorodecanesulfonic acid (PFDS)	3.13	1.6	ng/L	3.052		103	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.70	1.6	ng/L	3.064		88.1	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	12.1	6.3	ng/L	11.86		102	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	13.8	6.3	ng/L	12.04		114	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	13.5	6.3	ng/L	12.16		111	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.21	1.6	ng/L	3.166		102	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	3.06	1.6	ng/L	3.166		96.7	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.42	1.6	ng/L	3.166		108	65-145			
N-MeFOSAA (NMeFOSAA)	3.86	1.6	ng/L	3.166		122	50-140			

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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 B394053 - EPA 1633										
MRL Check (B394053-MRL1)				Prepared: 12/09/24 Analyzed: 12/11/24						
N-EtFOSAA (NEtFOSAA)	3.13	1.6	ng/L	3.166		98.9	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	32.3	16	ng/L	31.66		102	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	32.4	16	ng/L	31.66		102	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.3	6.3	ng/L	12.66		105	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	13.1	6.3	ng/L	11.97		110	65-145			
9Cl-PF3ONS (F53B Minor)	12.8	6.3	ng/L	11.81		108	70-155			
11Cl-PF3OUdS (F53B Major)	12.5	6.3	ng/L	11.94		105	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.7	7.9	ng/L	15.83		86.4	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	79.4	40	ng/L	79.14		100	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	79.6	40	ng/L	79.14		101	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.02	3.2	ng/L	5.647		107	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	6.65	3.2	ng/L	6.331		105	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	7.10	3.2	ng/L	6.331		112	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.87	3.2	ng/L	6.331		108	50-150			
Surrogate: 13C4-PFBA	*76.0*		ng/L	79.14		96.0	5-130			
Surrogate: 13C5-PFPeA	*37.0*		ng/L	39.57		93.4	40-130			
Surrogate: 13C5-PFHxA	*19.3*		ng/L	19.78		97.6	40-130			
Surrogate: 13C4-PFHpA	*18.5*		ng/L	19.78		93.7	40-130			
Surrogate: 13C8-PFOA	*20.2*		ng/L	19.78		102	40-130			
Surrogate: 13C9-PFNA	*9.35*		ng/L	9.892		94.6	40-130			
Surrogate: 13C6-PFDA	*9.53*		ng/L	9.892		96.3	40-130			
Surrogate: 13C7-PFUnA	*10.2*		ng/L	9.892		103	30-130			
Surrogate: 13C2-PFDoA	*9.25*		ng/L	9.892		93.5	10-130			
Surrogate: 13C2-PFTeDA	*8.87*		ng/L	9.892		89.6	10-130			
Surrogate: 13C3-PFBS	*19.6*		ng/L	19.78		99.2	40-135			
Surrogate: 13C3-PFHxS	*19.3*		ng/L	19.78		97.6	40-130			
Surrogate: 13C8-PFOS	*19.7*		ng/L	19.78		99.4	40-130			
Surrogate: 13C2-4:2FTS	*45.3*		ng/L	39.57		114	40-200			
Surrogate: 13C2-6:2FTS	*41.5*		ng/L	39.57		105	40-200			
Surrogate: 13C2-8:2FTS	*38.4*		ng/L	39.57		97.1	40-300			
Surrogate: 13C8-PFOSA	*18.5*		ng/L	19.78		93.3	40-130			
Surrogate: D3-NMeFOSA	*16.9*		ng/L	19.78		85.4	10-130			
Surrogate: D5-NEtFOSA	*16.5*		ng/L	19.78		83.2	10-130			
Surrogate: D3-NMeFOSAA	*47.7*		ng/L	39.57		121	40-170			
Surrogate: D5-NEtFOSAA	*48.8*		ng/L	39.57		123	25-135			
Surrogate: D7-NMeFOSE	*172*		ng/L	197.8		86.9	10-130			
Surrogate: D9-NEtFOSE	*169*		ng/L	197.8		85.6	10-130			
Surrogate: 13C3-HFPO-DA	*83.9*		ng/L	79.14		106	40-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392245 - SW-846 3510C										
Blank (B392245-BLK1)				Prepared: 11/14/24 Analyzed: 11/19/24						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							V-05
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							V-05
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	*3.44*		µg/L	4.000		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.46*		µg/L	4.000		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*3.32*		µg/L	4.000		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.53*		µg/L	4.000		88.2	30-150			

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Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392245 - SW-846 3510C										
LCS (B392245-BS1)				Prepared: 11/14/24 Analyzed: 11/19/24						
alpha-Chlordane	1.5	0.050	µg/L	2.000		77.1	0-200			
alpha-Chlordane [2C]	1.6	0.050	µg/L	2.000		80.9	0-200			
gamma-Chlordane	1.5	0.050	µg/L	2.000		75.3	0-200			
gamma-Chlordane [2C]	1.7	0.050	µg/L	2.000		82.5	0-200			
Aldrin	1.5	0.050	µg/L	2.000		74.7	40-140			
Aldrin [2C]	1.6	0.050	µg/L	2.000		81.6	40-140			
alpha-BHC	1.6	0.050	µg/L	2.000		81.5	40-140			
alpha-BHC [2C]	1.8	0.050	µg/L	2.000		88.2	40-140			
beta-BHC	1.5	0.050	µg/L	2.000		76.9	40-140			
beta-BHC [2C]	1.7	0.050	µg/L	2.000		84.5	40-140			
delta-BHC	1.5	0.050	µg/L	2.000		75.7	40-140			
delta-BHC [2C]	1.5	0.050	µg/L	2.000		77.4	40-140			
gamma-BHC (Lindane)	1.6	0.030	µg/L	2.000		77.7	40-140			
gamma-BHC (Lindane) [2C]	1.7	0.030	µg/L	2.000		83.8	40-140			
4,4'-DDD	1.6	0.040	µg/L	2.000		80.3	40-140			
4,4'-DDD [2C]	1.7	0.040	µg/L	2.000		86.4	40-140			
4,4'-DDE	1.6	0.040	µg/L	2.000		79.9	40-140			
4,4'-DDE [2C]	1.7	0.040	µg/L	2.000		85.7	40-140			
4,4'-DDT	1.5	0.040	µg/L	2.000		75.7	40-140			V-05
4,4'-DDT [2C]	1.8	0.040	µg/L	2.000		87.8	40-140			
Dieldrin	1.6	0.0020	µg/L	2.000		79.2	40-140			
Dieldrin [2C]	1.7	0.0020	µg/L	2.000		86.9	40-140			
Endosulfan I	1.5	0.050	µg/L	2.000		76.6	40-140			
Endosulfan I [2C]	1.7	0.050	µg/L	2.000		84.6	40-140			
Endosulfan II	1.6	0.080	µg/L	2.000		78.5	40-140			
Endosulfan II [2C]	1.7	0.080	µg/L	2.000		83.5	40-140			
Endosulfan Sulfate	1.6	0.080	µg/L	2.000		77.6	40-140			
Endosulfan Sulfate [2C]	1.7	0.080	µg/L	2.000		84.6	40-140			
Endrin	1.6	0.080	µg/L	2.000		79.8	40-140			
Endrin [2C]	1.7	0.080	µg/L	2.000		86.0	40-140			
Endrin Aldehyde	1.3	0.080	µg/L	2.000		65.1	40-140			
Endrin Aldehyde [2C]	1.4	0.080	µg/L	2.000		70.7	40-140			
Endrin Ketone	1.6	0.080	µg/L	2.000		79.6	40-140			
Endrin Ketone [2C]	1.7	0.080	µg/L	2.000		84.7	40-140			
Heptachlor	1.6	0.050	µg/L	2.000		78.9	40-140			
Heptachlor [2C]	1.7	0.050	µg/L	2.000		84.7	40-140			
Heptachlor Epoxide	1.6	0.050	µg/L	2.000		77.9	40-140			
Heptachlor Epoxide [2C]	1.7	0.050	µg/L	2.000		83.0	40-140			
Methoxychlor	1.6	0.50	µg/L	2.000		79.1	40-140			V-05
Methoxychlor [2C]	1.7	0.50	µg/L	2.000		82.8	40-140			
Surrogate: Decachlorobiphenyl	*3.32*		µg/L	4.000		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.34*		µg/L	4.000		83.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.93*		µg/L	4.000		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.09*		µg/L	4.000		77.3	30-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392245 - SW-846 3510C										
LCS Dup (B392245-BSD1)				Prepared: 11/14/24 Analyzed: 11/19/24						
alpha-Chlordane	1.5	0.050	µg/L	2.000		75.0	0-200	2.83		
alpha-Chlordane [2C]	1.6	0.050	µg/L	2.000		81.7	0-200	0.904		
gamma-Chlordane	1.5	0.050	µg/L	2.000		74.5	0-200	1.09		
gamma-Chlordane [2C]	1.6	0.050	µg/L	2.000		81.7	0-200	1.03		
Aldrin	1.4	0.050	µg/L	2.000		71.5	40-140	4.35	20	
Aldrin [2C]	1.6	0.050	µg/L	2.000		78.4	40-140	4.10	20	
alpha-BHC	1.6	0.050	µg/L	2.000		79.3	40-140	2.75	20	
alpha-BHC [2C]	1.7	0.050	µg/L	2.000		85.4	40-140	3.20	20	
beta-BHC	1.5	0.050	µg/L	2.000		76.6	40-140	0.392	20	
beta-BHC [2C]	1.7	0.050	µg/L	2.000		83.6	40-140	1.03	20	
delta-BHC	1.5	0.050	µg/L	2.000		73.9	40-140	2.39	20	
delta-BHC [2C]	1.6	0.050	µg/L	2.000		79.0	40-140	2.16	20	
gamma-BHC (Lindane)	1.5	0.030	µg/L	2.000		76.4	40-140	1.67	20	
gamma-BHC (Lindane) [2C]	1.6	0.030	µg/L	2.000		82.1	40-140	2.04	20	
4,4'-DDD	1.6	0.040	µg/L	2.000		79.3	40-140	1.25	20	
4,4'-DDD [2C]	1.7	0.040	µg/L	2.000		84.9	40-140	1.80	20	
4,4'-DDE	1.5	0.040	µg/L	2.000		76.1	40-140	4.89	20	
4,4'-DDE [2C]	1.7	0.040	µg/L	2.000		83.4	40-140	2.74	20	
4,4'-DDT	1.5	0.040	µg/L	2.000		72.8	40-140	4.03	20	V-05
4,4'-DDT [2C]	1.7	0.040	µg/L	2.000		84.3	40-140	4.04	20	
Dieldrin	1.5	0.0020	µg/L	2.000		76.9	40-140	3.03	20	
Dieldrin [2C]	1.7	0.0020	µg/L	2.000		84.6	40-140	2.70	20	
Endosulfan I	1.5	0.050	µg/L	2.000		74.6	40-140	2.63	20	
Endosulfan I [2C]	1.6	0.050	µg/L	2.000		82.3	40-140	2.75	20	
Endosulfan II	1.5	0.080	µg/L	2.000		76.8	40-140	2.14	20	
Endosulfan II [2C]	1.7	0.080	µg/L	2.000		82.5	40-140	1.23	20	
Endosulfan Sulfate	1.5	0.080	µg/L	2.000		74.7	40-140	3.81	20	
Endosulfan Sulfate [2C]	1.6	0.080	µg/L	2.000		81.1	40-140	4.21	20	
Endrin	1.5	0.080	µg/L	2.000		75.1	40-140	6.10	20	
Endrin [2C]	1.6	0.080	µg/L	2.000		81.0	40-140	6.02	20	
Endrin Aldehyde	1.3	0.080	µg/L	2.000		65.2	40-140	0.140	20	
Endrin Aldehyde [2C]	1.4	0.080	µg/L	2.000		70.9	40-140	0.240	20	
Endrin Ketone	1.5	0.080	µg/L	2.000		76.0	40-140	4.62	20	
Endrin Ketone [2C]	1.6	0.080	µg/L	2.000		81.0	40-140	4.48	20	
Heptachlor	1.5	0.050	µg/L	2.000		75.4	40-140	4.54	20	
Heptachlor [2C]	1.6	0.050	µg/L	2.000		81.7	40-140	3.59	20	
Heptachlor Epoxide	1.5	0.050	µg/L	2.000		75.7	40-140	2.83	20	
Heptachlor Epoxide [2C]	1.6	0.050	µg/L	2.000		81.3	40-140	2.03	20	
Methoxychlor	1.5	0.50	µg/L	2.000		75.6	40-140	4.49	20	V-05
Methoxychlor [2C]	1.6	0.50	µg/L	2.000		79.1	40-140	4.59	20	
Surrogate: Decachlorobiphenyl	*3.19*		µg/L	4.000		79.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.21*		µg/L	4.000		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.77*		µg/L	4.000		69.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.92*		µg/L	4.000		73.1	30-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392245 - SW-846 3510C										
Matrix Spike (B392245-MS1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/19/24						
Aldrin	1.3	0.047	µg/L	1.868	ND	70.0	30-150			
Aldrin [2C]	1.4	0.047	µg/L	1.868	ND	75.0	30-150			
alpha-BHC	1.4	0.047	µg/L	1.868	ND	74.4	30-150			
alpha-BHC [2C]	1.5	0.047	µg/L	1.868	ND	79.0	30-150			
beta-BHC	1.2	0.047	µg/L	1.868	ND	65.6	30-150			
beta-BHC [2C]	1.3	0.047	µg/L	1.868	ND	70.7	30-150			
delta-BHC	1.2	0.047	µg/L	1.868	ND	62.0	30-150			
delta-BHC [2C]	1.2	0.047	µg/L	1.868	ND	64.7	30-150			
gamma-BHC (Lindane)	1.3	0.028	µg/L	1.868	ND	69.6	30-150			
gamma-BHC (Lindane) [2C]	1.4	0.028	µg/L	1.868	ND	73.5	30-150			
4,4'-DDD	1.7	0.037	µg/L	1.868	ND	89.8	30-150			
4,4'-DDD [2C]	1.8	0.037	µg/L	1.868	ND	94.5	30-150			
4,4'-DDE	1.4	0.037	µg/L	1.868	ND	75.5	30-150			
4,4'-DDE [2C]	1.5	0.037	µg/L	1.868	ND	79.7	30-150			
4,4'-DDT	0.83	0.037	µg/L	1.868	ND	44.6	30-150			V-05
4,4'-DDT [2C]	0.89	0.037	µg/L	1.868	ND	47.5	30-150			
Dieldrin	1.4	0.0019	µg/L	1.868	ND	75.8	30-150			
Dieldrin [2C]	1.5	0.0019	µg/L	1.868	ND	82.1	30-150			
Endosulfan I	1.4	0.047	µg/L	1.868	ND	72.7	30-150			
Endosulfan I [2C]	1.5	0.047	µg/L	1.868	ND	79.3	30-150			
Endosulfan II	1.4	0.075	µg/L	1.868	ND	73.4	30-150			
Endosulfan II [2C]	1.5	0.075	µg/L	1.868	ND	80.1	30-150			
Endosulfan Sulfate	1.2	0.075	µg/L	1.868	ND	63.8	30-150			
Endosulfan Sulfate [2C]	1.3	0.075	µg/L	1.868	ND	69.2	30-150			
Endrin	1.4	0.075	µg/L	1.868	ND	73.2	30-150			
Endrin [2C]	1.5	0.075	µg/L	1.868	ND	78.2	30-150			
Endrin Aldehyde	1.3	0.075	µg/L	1.868	ND	68.2	30-150			
Endrin Aldehyde [2C]	1.4	0.075	µg/L	1.868	ND	72.6	30-150			
Endrin Ketone	1.3	0.075	µg/L	1.868	ND	70.9	30-150			
Endrin Ketone [2C]	1.4	0.075	µg/L	1.868	ND	74.5	30-150			
Heptachlor	1.2	0.047	µg/L	1.868	ND	66.5	30-150			
Heptachlor [2C]	1.3	0.047	µg/L	1.868	ND	71.0	30-150			
Heptachlor Epoxide	1.4	0.047	µg/L	1.868	ND	74.6	30-150			
Heptachlor Epoxide [2C]	1.5	0.047	µg/L	1.868	ND	78.9	30-150			
Methoxychlor	0.90	0.47	µg/L	1.868	ND	47.9	30-150			V-05
Methoxychlor [2C]	0.95	0.47	µg/L	1.868	ND	50.6	30-150			
Surrogate: Decachlorobiphenyl	*1.19*		µg/L	3.736		31.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.21*		µg/L	3.736		32.5	30-150			
Surrogate: Tetrachloro-m-xylene	*2.35*		µg/L	3.736		62.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.40*		µg/L	3.736		64.2	30-150			
Matrix Spike Dup (B392245-MSD1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/19/24						
Aldrin	1.4	0.049	µg/L	1.947	ND	73.2	30-150	8.67	20	
Aldrin [2C]	1.5	0.049	µg/L	1.947	ND	78.5	30-150	8.73	20	
alpha-BHC	1.5	0.049	µg/L	1.947	ND	78.0	30-150	8.89	20	
alpha-BHC [2C]	1.6	0.049	µg/L	1.947	ND	82.7	30-150	8.73	20	
beta-BHC	1.4	0.049	µg/L	1.947	ND	70.5	30-150	11.4	20	
beta-BHC [2C]	1.5	0.049	µg/L	1.947	ND	75.3	30-150	10.4	20	
delta-BHC	1.4	0.049	µg/L	1.947	ND	70.7	30-150	17.3	20	
delta-BHC [2C]	1.4	0.049	µg/L	1.947	ND	73.4	30-150	16.7	20	
gamma-BHC (Lindane)	1.4	0.029	µg/L	1.947	ND	73.8	30-150	10.1	20	
gamma-BHC (Lindane) [2C]	1.5	0.029	µg/L	1.947	ND	77.8	30-150	9.86	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392245 - SW-846 3510C										
Matrix Spike Dup (B392245-MSD1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/19/24						
4,4'-DDD	1.8	0.039	µg/L	1.947	ND	94.4	30-150	9.16	20	
4,4'-DDD [2C]	1.9	0.039	µg/L	1.947	ND	99.1	30-150	8.89	20	
4,4'-DDE	1.6	0.039	µg/L	1.947	ND	79.8	30-150	9.73	20	
4,4'-DDE [2C]	1.6	0.039	µg/L	1.947	ND	84.2	30-150	9.72	20	
4,4'-DDT	0.98	0.039	µg/L	1.947	ND	50.3	30-150	16.1	20	V-05
4,4'-DDT [2C]	1.0	0.039	µg/L	1.947	ND	52.7	30-150	14.4	20	
Dieldrin	1.6	0.0019	µg/L	1.947	ND	80.1	30-150	9.73	20	
Dieldrin [2C]	1.7	0.0019	µg/L	1.947	ND	86.7	30-150	9.68	20	
Endosulfan I	1.5	0.049	µg/L	1.947	ND	77.0	30-150	9.88	20	
Endosulfan I [2C]	1.6	0.049	µg/L	1.947	ND	84.0	30-150	9.93	20	
Endosulfan II	1.5	0.078	µg/L	1.947	ND	78.8	30-150	11.3	20	
Endosulfan II [2C]	1.7	0.078	µg/L	1.947	ND	85.3	30-150	10.5	20	
Endosulfan Sulfate	1.4	0.078	µg/L	1.947	ND	73.4	30-150	18.2	20	
Endosulfan Sulfate [2C]	1.5	0.078	µg/L	1.947	ND	79.3	30-150	17.8	20	
Endrin	1.5	0.078	µg/L	1.947	ND	78.5	30-150	11.2	20	
Endrin [2C]	1.6	0.078	µg/L	1.947	ND	83.6	30-150	10.8	20	
Endrin Aldehyde	1.4	0.078	µg/L	1.947	ND	69.4	30-150	5.96	20	
Endrin Aldehyde [2C]	1.4	0.078	µg/L	1.947	ND	73.9	30-150	5.93	20	
Endrin Ketone	1.5	0.078	µg/L	1.947	ND	78.1	30-150	13.8	20	
Endrin Ketone [2C]	1.6	0.078	µg/L	1.947	ND	81.9	30-150	13.6	20	
Heptachlor	1.4	0.049	µg/L	1.947	ND	70.6	30-150	10.2	20	
Heptachlor [2C]	1.5	0.049	µg/L	1.947	ND	75.0	30-150	9.68	20	
Heptachlor Epoxide	1.5	0.049	µg/L	1.947	ND	78.5	30-150	9.35	20	
Heptachlor Epoxide [2C]	1.6	0.049	µg/L	1.947	ND	83.0	30-150	9.25	20	
Methoxychlor	1.1	0.49	µg/L	1.947	ND	54.0	30-150	16.1	20	V-05
Methoxychlor [2C]	1.1	0.49	µg/L	1.947	ND	57.2	30-150	16.4	20	
Surrogate: Decachlorobiphenyl	*1.40*		µg/L	3.894		36.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.43*		µg/L	3.894		36.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.49*		µg/L	3.894		63.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.52*		µg/L	3.894		64.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392244 - SW-846 3510C										
Blank (B392244-BLK1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*3.20*		µg/L	4.000		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.40*		µg/L	4.000		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	*3.19*		µg/L	4.000		79.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.12*		µg/L	4.000		78.0	30-150			
LCS (B392244-BS1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Aroclor-1016	0.88	0.20	µg/L	1.000		88.4	40-140			
Aroclor-1016 [2C]	0.90	0.20	µg/L	1.000		90.1	40-140			
Aroclor-1260	0.94	0.20	µg/L	1.000		94.3	40-140			
Aroclor-1260 [2C]	1.0	0.20	µg/L	1.000		100	40-140			
Surrogate: Decachlorobiphenyl	*3.46*		µg/L	4.000		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.65*		µg/L	4.000		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	*3.40*		µg/L	4.000		84.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.28*		µg/L	4.000		82.0	30-150			
LCS Dup (B392244-BSD1)				Prepared: 11/14/24 Analyzed: 11/15/24						
Aroclor-1016	0.80	0.20	µg/L	1.000		80.0	40-140	10.0	20	
Aroclor-1016 [2C]	0.82	0.20	µg/L	1.000		81.8	40-140	9.67	20	
Aroclor-1260	0.83	0.20	µg/L	1.000		82.5	40-140	13.2	20	
Aroclor-1260 [2C]	0.89	0.20	µg/L	1.000		88.8	40-140	12.2	20	
Surrogate: Decachlorobiphenyl	*2.20*		µg/L	4.000		55.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.37*		µg/L	4.000		59.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.79*		µg/L	4.000		69.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.72*		µg/L	4.000		68.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392244 - SW-846 3510C										
Matrix Spike (B392244-MS1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/19/24						
Aroclor-1016	0.87	0.19	µg/L	0.9460	ND	91.5	40-140			
Aroclor-1016 [2C]	0.93	0.19	µg/L	0.9460	ND	98.2	40-140			
Aroclor-1260	0.95	0.19	µg/L	0.9460	ND	100	40-140			
Aroclor-1260 [2C]	1.1	0.19	µg/L	0.9460	ND	113	40-140			
Surrogate: Decachlorobiphenyl	*1.96*		µg/L	3.784		51.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.13*		µg/L	3.784		56.3	30-150			
Surrogate: Tetrachloro-m-xylene	*2.75*		µg/L	3.784		72.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.94*		µg/L	3.784		77.6	30-150			
Matrix Spike Dup (B392244-MSD1)	**Source: 24K1058-01**			Prepared: 11/14/24 Analyzed: 11/19/24						
Aroclor-1016	1.0	0.19	µg/L	0.9709	ND	104	40-140	15.0	50	
Aroclor-1016 [2C]	1.2	0.19	µg/L	0.9709	ND	119	40-140	21.4	50	
Aroclor-1260	1.1	0.19	µg/L	0.9709	ND	118	40-140	18.9	50	
Aroclor-1260 [2C]	1.3	0.19	µg/L	0.9709	ND	135	40-140	20.6	50	
Surrogate: Decachlorobiphenyl	*2.27*		µg/L	3.883		58.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.48*		µg/L	3.883		63.9	30-150			
Surrogate: Tetrachloro-m-xylene	*3.59*		µg/L	3.883		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.88*		µg/L	3.883		99.8	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392369 - SW-846 3005A										
Blank (B392369-BLK1)				Prepared: 11/15/24 Analyzed: 11/22/24						
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
Blank (B392369-BLK2)				Prepared: 11/15/24 Analyzed: 11/23/24						
Aluminum	ND	0.050	mg/L							
Selenium	ND	0.050	mg/L							
LCS (B392369-BS1)				Prepared: 11/15/24 Analyzed: 11/22/24						
Antimony	0.500	0.050	mg/L	0.5000		100	80-120			
Arsenic	0.480	0.010	mg/L	0.5000		96.1	80-120			
Barium	0.519	0.050	mg/L	0.5000		104	80-120			
Beryllium	0.508	0.0040	mg/L	0.5000		102	80-120			
Cadmium	0.514	0.0040	mg/L	0.5000		103	80-120			
Calcium	4.03	0.50	mg/L	4.000		101	80-120			
Chromium	0.519	0.010	mg/L	0.5000		104	80-120			
Cobalt	0.522	0.010	mg/L	0.5000		104	80-120			
Copper	0.989	0.010	mg/L	1.000		98.9	80-120			
Iron	4.05	0.050	mg/L	4.000		101	80-120			
Lead	0.520	0.010	mg/L	0.5000		104	80-120			
Magnesium	3.92	0.050	mg/L	4.000		98.0	80-120			
Manganese	0.511	0.010	mg/L	0.5000		102	80-120			
Nickel	0.526	0.010	mg/L	0.5000		105	80-120			
Potassium	3.93	2.0	mg/L	4.000		98.3	80-120			
Silver	0.545	0.010	mg/L	0.5000		109	80-120			
Sodium	3.96	2.0	mg/L	4.000		98.9	80-120			
Thallium	0.505	0.050	mg/L	0.5000		101	80-120			
Vanadium	0.513	0.010	mg/L	0.5000		103	80-120			
Zinc	1.05	0.010	mg/L	1.000		105	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392369 - SW-846 3005A										
LCS (B392369-BS2)				Prepared: 11/15/24 Analyzed: 11/23/24						
Aluminum	0.508	0.050	mg/L	0.5000		102	80-120			
Selenium	0.506	0.050	mg/L	0.5000		101	80-120			
LCS Dup (B392369-BSD1)				Prepared: 11/15/24 Analyzed: 11/22/24						
Antimony	0.498	0.050	mg/L	0.5000		99.7	80-120	0.300	20	
Arsenic	0.474	0.010	mg/L	0.5000		94.9	80-120	1.26	20	
Barium	0.512	0.050	mg/L	0.5000		102	80-120	1.25	20	
Beryllium	0.514	0.0040	mg/L	0.5000		103	80-120	1.20	20	
Cadmium	0.507	0.0040	mg/L	0.5000		101	80-120	1.32	20	
Calcium	4.05	0.50	mg/L	4.000		101	80-120	0.368	20	
Chromium	0.514	0.010	mg/L	0.5000		103	80-120	1.07	20	
Cobalt	0.517	0.010	mg/L	0.5000		103	80-120	1.10	20	
Copper	0.979	0.010	mg/L	1.000		97.9	80-120	1.09	20	
Iron	4.05	0.050	mg/L	4.000		101	80-120	0.00351	20	
Lead	0.516	0.010	mg/L	0.5000		103	80-120	0.670	20	
Magnesium	3.94	0.050	mg/L	4.000		98.5	80-120	0.518	20	
Manganese	0.513	0.010	mg/L	0.5000		103	80-120	0.539	20	
Nickel	0.518	0.010	mg/L	0.5000		104	80-120	1.49	30	
Potassium	3.90	2.0	mg/L	4.000		97.5	80-120	0.780	20	
Silver	0.539	0.010	mg/L	0.5000		108	80-120	1.01	20	
Sodium	3.91	2.0	mg/L	4.000		97.7	80-120	1.19	20	
Thallium	0.492	0.050	mg/L	0.5000		98.3	80-120	2.57	20	
Vanadium	0.506	0.010	mg/L	0.5000		101	80-120	1.33	20	
Zinc	1.03	0.010	mg/L	1.000		103	80-120	1.82	20	
LCS Dup (B392369-BSD2)				Prepared: 11/15/24 Analyzed: 11/23/24						
Aluminum	0.501	0.050	mg/L	0.5000		100	80-120	1.46	30	
Selenium	0.502	0.050	mg/L	0.5000		100	80-120	0.799	20	
Matrix Spike (B392369-MS1)	**Source: 24K1058-01**			Prepared: 11/15/24 Analyzed: 11/22/24						
Antimony	0.535	0.050	mg/L	0.5000	ND	107	75-125			
Arsenic	0.504	0.010	mg/L	0.5000	ND	101	75-125			
Barium	0.937	0.050	mg/L	0.5000	0.437	100	75-125			
Beryllium	0.523	0.0040	mg/L	0.5000	ND	105	75-125			
Cadmium	0.527	0.0040	mg/L	0.5000	ND	105	75-125			
Calcium	184	0.50	mg/L	4.000	180	105	75-125			
Chromium	0.521	0.010	mg/L	0.5000	ND	104	75-125			
Cobalt	0.496	0.010	mg/L	0.5000	ND	99.1	75-125			
Copper	1.06	0.010	mg/L	1.000	ND	106	75-125			
Iron	33.7	0.050	mg/L	4.000	29.4	106	75-125			
Lead	0.491	0.010	mg/L	0.5000	ND	98.2	75-125			
Magnesium	24.6	0.050	mg/L	4.000	20.5	103	75-125			
Manganese	1.37	0.010	mg/L	0.5000	0.841	105	75-125			
Nickel	0.487	0.010	mg/L	0.5000	ND	97.4	75-125			
Potassium	15.8	2.0	mg/L	4.000	12.1	92.9	75-125			
Silver	0.562	0.010	mg/L	0.5000	ND	112	75-125			
Thallium	0.521	0.050	mg/L	0.5000	ND	104	75-125			
Vanadium	0.536	0.010	mg/L	0.5000	0.00870	106	75-125			
Zinc	0.991	0.010	mg/L	1.000	ND	99.1	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392369 - SW-846 3005A											
Matrix Spike (B392369-MS2)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/23/24							
Aluminum	0.607	0.050	mg/L	0.5000	0.0561	110		75-125			
Selenium	0.517	0.050	mg/L	0.5000	ND	103		75-125			
Matrix Spike (B392369-MS3)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/23/24							
Sodium	786	20	mg/L	4.000	737	**1240**	*	75-125			MS-19
Matrix Spike Dup (B392369-MSD1)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/22/24							
Antimony	0.548	0.050	mg/L	0.5000	ND	110		75-125	2.35	20	
Arsenic	0.518	0.010	mg/L	0.5000	ND	104		75-125	2.70	20	
Barium	0.948	0.050	mg/L	0.5000	0.437	102		75-125	1.17	20	
Beryllium	0.524	0.0040	mg/L	0.5000	ND	105		75-125	0.266	20	
Cadmium	0.534	0.0040	mg/L	0.5000	ND	107		75-125	1.34	20	
Calcium	184	0.50	mg/L	4.000	180	114		75-125	0.203	20	
Chromium	0.528	0.010	mg/L	0.5000	ND	106		75-125	1.26	20	
Cobalt	0.503	0.010	mg/L	0.5000	ND	101		75-125	1.37	20	
Copper	1.08	0.010	mg/L	1.000	ND	108		75-125	1.57	20	
Iron	33.2	0.050	mg/L	4.000	29.4	95.1		75-125	1.27	20	
Lead	0.507	0.010	mg/L	0.5000	ND	101		75-125	3.07	20	
Magnesium	24.6	0.050	mg/L	4.000	20.5	103		75-125	0.106	20	
Manganese	1.35	0.010	mg/L	0.5000	0.841	101		75-125	1.57	20	
Nickel	0.500	0.010	mg/L	0.5000	ND	100		75-125	2.70	20	
Potassium	15.8	2.0	mg/L	4.000	12.1	92.5		75-125	0.0988	20	
Silver	0.570	0.010	mg/L	0.5000	ND	114		75-125	1.52	20	
Thallium	0.545	0.050	mg/L	0.5000	ND	109		75-125	4.54	20	
Vanadium	0.545	0.010	mg/L	0.5000	0.00870	107		75-125	1.57	20	
Zinc	1.00	0.010	mg/L	1.000	ND	100		75-125	1.44	20	
Matrix Spike Dup (B392369-MSD2)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/23/24							
Aluminum	0.581	0.050	mg/L	0.5000	0.0561	105		75-125	4.35	20	
Selenium	0.515	0.050	mg/L	0.5000	ND	103		75-125	0.392	20	
Matrix Spike Dup (B392369-MSD3)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/23/24							
Sodium	763	20	mg/L	4.000	737	**662**	*	75-125	2.98	20	MS-19
Post Spike (B392369-PS1)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/22/24							
Antimony	2.17		mg/L	2.000	0.00	109		75-125			
Arsenic	2.14		mg/L	2.000	-0.00897	107		75-125			
Barium	2.49		mg/L	2.000	0.428	103		75-125			
Beryllium	2.14		mg/L	2.000	0.000248	107		75-125			
Cadmium	2.15		mg/L	2.000	-0.00000992	107		75-125			
Calcium	197		mg/L	16.00	176	**130**	*	75-125			MS-19
Chromium	2.12		mg/L	2.000	0.00479	106		75-125			
Cobalt	2.04		mg/L	2.000	0.00222	102		75-125			
Copper	4.40		mg/L	4.000	-0.00325	110		75-125			
Iron	45.9		mg/L	16.00	28.9	106		75-125			
Lead	2.03		mg/L	2.000	0.000409	101		75-125			
Magnesium	36.1		mg/L	16.00	20.1	100		75-125			
Manganese	2.90		mg/L	2.000	0.824	104		75-125			
Nickel	2.02		mg/L	2.000	0.00264	101		75-125			
Potassium	29.2		mg/L	16.00	11.9	108		75-125			
Silver	2.16		mg/L	2.000	-0.00179	108		75-125			
Thallium	2.21		mg/L	2.000	0.00736	110		75-125			
Vanadium	2.17		mg/L	2.000	0.00853	108		75-125			
Zinc	4.17		mg/L	4.000	-0.0548	104		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B392369 - SW-846 3005A										
Dilution Check (B392369-SRL1)		**Source: 24K1058-01**		Prepared: 11/15/24 Analyzed: 11/22/24						
Antimony	ND	0.25	mg/L		ND				20	
Arsenic	ND	0.050	mg/L		ND				20	
Barium	0.445	0.25	mg/L		0.437			1.88	20	
Beryllium	ND	0.020	mg/L		ND				20	
Cadmium	ND	0.020	mg/L		ND				20	
Calcium	183	2.5	mg/L		180			1.72	20	
Chromium	ND	0.050	mg/L		ND				20	
Cobalt	ND	0.050	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	30.0	0.25	mg/L		29.4			1.82	20	
Lead	ND	0.050	mg/L		ND				20	
Magnesium	20.3	0.25	mg/L		20.5			0.955	20	
Manganese	0.851	0.050	mg/L		0.841			1.15	20	
Nickel	ND	0.050	mg/L		ND				20	
Potassium	11.5	10	mg/L		12.1			4.87	20	
Silver	ND	0.050	mg/L		ND				20	
Thallium	ND	0.25	mg/L		ND				20	
Vanadium	ND	0.050	mg/L		ND				20	
Zinc	ND	0.050	mg/L		ND				20	
Batch B393189 - SW-846 7470A Prep										
Blank (B393189-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Mercury	ND	0.00020	mg/L							
LCS (B393189-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Mercury	0.00445	0.00020	mg/L	0.004020		111	80-120			
LCS Dup (B393189-BSD1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Mercury	0.00428	0.00020	mg/L	0.004020		107	80-120	3.90	20	
Matrix Spike (B393189-MS1)		**Source: 24K1058-01**		Prepared: 11/26/24 Analyzed: 11/27/24						
Mercury	0.00415	0.00020	mg/L	0.004020	ND	103	75-125			
Matrix Spike Dup (B393189-MSD1)		**Source: 24K1058-01**		Prepared: 11/26/24 Analyzed: 11/27/24						
Mercury	0.00437	0.00020	mg/L	0.004020	ND	109	75-125	5.15	20	
Batch B393825 - SW-846 7470A Prep										
Blank (B393825-BLK1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	ND	0.00020	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393825 - SW-846 7470A Prep										
LCS (B393825-BS1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	0.00347	0.00020	mg/L	0.004020		86.4	80-120			
LCS Dup (B393825-BSD1)				Prepared: 12/05/24 Analyzed: 12/06/24						
Mercury	0.00362	0.00020	mg/L	0.004020		90.2	80-120	4.23	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393194 - SW-846 7470A Dissolved										
Blank (B393194-BLK1)				Prepared: 11/27/24 Analyzed: 12/02/24						
Mercury	ND	0.00020	mg/L							
LCS (B393194-BS1)				Prepared: 11/27/24 Analyzed: 12/02/24						
Mercury	0.00391	0.00020	mg/L	0.004020		97.3	80-120			
LCS Dup (B393194-BSD1)				Prepared: 11/27/24 Analyzed: 12/02/24						
Mercury	0.00418	0.00020	mg/L	0.004020		104	80-120	6.60	20	
Duplicate (B393194-DUP1)		**Source: 24K1058-07**		Prepared: 11/27/24 Analyzed: 12/02/24						
Mercury	ND	0.00020	mg/L		ND			NC	20	
Matrix Spike (B393194-MS1)		**Source: 24K1058-07**		Prepared: 11/27/24 Analyzed: 12/02/24						
Mercury	0.00401	0.00020	mg/L	0.004020	ND	99.8	75-125			
Batch B393234 - SW-846 3005A Dissolved										
Blank (B393234-BLK1)				Prepared: 11/26/24 Analyzed: 11/30/24						
Aluminum	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Blank (B393234-BLK2)				Prepared: 11/26/24 Analyzed: 12/02/24						
Antimony	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Blank (B393234-BLK3)				Prepared: 11/26/24 Analyzed: 12/13/24						
Zinc	ND	0.010	mg/L							

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393234 - SW-846 3005A Dissolved										
LCS (B393234-BS1)				Prepared: 11/26/24 Analyzed: 11/30/24						
Aluminum	0.489	0.050	mg/L	0.5000		97.8	80-120			
Arsenic	0.459	0.010	mg/L	0.5000		91.8	80-120			
Barium	0.481	0.050	mg/L	0.5000		96.3	80-120			
Beryllium	0.512	0.0040	mg/L	0.5000		102	80-120			
Cadmium	0.497	0.0040	mg/L	0.5000		99.4	80-120			
Calcium	3.93	0.50	mg/L	4.000		98.4	80-120			
Chromium	0.488	0.010	mg/L	0.5000		97.6	80-120			
Cobalt	0.495	0.010	mg/L	0.5000		98.9	80-120			
Iron	4.00	0.050	mg/L	4.000		99.9	80-120			
Lead	0.507	0.010	mg/L	0.5000		101	80-120			
Magnesium	3.83	0.050	mg/L	4.000		95.8	80-120			
Manganese	0.492	0.010	mg/L	0.5000		98.3	80-120			
Nickel	0.483	0.010	mg/L	0.5000		96.6	80-120			
Potassium	3.88	2.0	mg/L	4.000		97.0	80-120			
Selenium	0.476	0.050	mg/L	0.5000		95.2	80-120			
Silver	0.454	0.010	mg/L	0.5000		90.9	80-120			
Sodium	3.93	2.0	mg/L	4.000		98.2	80-120			
Thallium	0.500	0.050	mg/L	0.5000		100	80-120			
Vanadium	0.515	0.010	mg/L	0.5000		103	80-120			
Zinc	0.990	0.010	mg/L	1.000		99.0	80-120			
LCS (B393234-BS2)				Prepared: 11/26/24 Analyzed: 12/02/24						
Antimony	0.481	0.050	mg/L	0.5000		96.2	80-120			
Copper	0.952	0.010	mg/L	1.000		95.2	80-120			
LCS Dup (B393234-BSD1)				Prepared: 11/26/24 Analyzed: 11/30/24						
Aluminum	0.516	0.050	mg/L	0.5000		103	80-120	5.26	20	
Arsenic	0.473	0.010	mg/L	0.5000		94.6	80-120	3.01	20	
Barium	0.488	0.050	mg/L	0.5000		97.6	80-120	1.41	20	
Beryllium	0.516	0.0040	mg/L	0.5000		103	80-120	0.873	20	
Cadmium	0.505	0.0040	mg/L	0.5000		101	80-120	1.54	20	
Calcium	4.01	0.50	mg/L	4.000		100	80-120	1.96	20	
Chromium	0.500	0.010	mg/L	0.5000		100	80-120	2.47	20	
Cobalt	0.507	0.010	mg/L	0.5000		101	80-120	2.58	20	
Iron	4.08	0.050	mg/L	4.000		102	80-120	2.13	20	
Lead	0.516	0.010	mg/L	0.5000		103	80-120	1.78	20	
Magnesium	3.86	0.050	mg/L	4.000		96.5	80-120	0.795	20	
Manganese	0.503	0.010	mg/L	0.5000		101	80-120	2.25	20	
Nickel	0.499	0.010	mg/L	0.5000		99.8	80-120	3.30	20	
Potassium	3.89	2.0	mg/L	4.000		97.3	80-120	0.316	20	
Selenium	0.487	0.050	mg/L	0.5000		97.4	80-120	2.35	20	
Silver	0.450	0.010	mg/L	0.5000		90.1	80-120	0.895	20	
Sodium	3.96	2.0	mg/L	4.000		99.1	80-120	0.911	20	
Thallium	0.510	0.050	mg/L	0.5000		102	80-120	1.93	20	
Vanadium	0.526	0.010	mg/L	0.5000		105	80-120	2.13	20	
Zinc	1.02	0.010	mg/L	1.000		102	80-120	2.81	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393234 - SW-846 3005A Dissolved										
LCS Dup (B393234-BSD2)				Prepared: 11/26/24 Analyzed: 12/02/24						
Antimony	0.491	0.050	mg/L	0.5000		98.2	80-120	2.12	20	
Copper	0.978	0.010	mg/L	1.000		97.8	80-120	2.62	20	
Dilution Check (B393234-SRL1)		**Source: 24K1758-01**		Prepared: 11/26/24 Analyzed: 11/30/24						
Calcium	6.43	2.5	mg/L		6.37			0.964	20	
Sodium	2.90	10	mg/L		3.01			3.76	20	J

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B392500 - SW-846 7196A											
Blank (B392500-BLK1)				Prepared & Analyzed: 11/18/24							
Hexavalent Chromium	ND	0.0040	mg/L								
LCS (B392500-BS1)				Prepared & Analyzed: 11/18/24							
Hexavalent Chromium	0.099	0.0040	mg/L	0.1000		99.3		80-120			
LCS Dup (B392500-BSD1)				Prepared & Analyzed: 11/18/24							
Hexavalent Chromium	0.11	0.0040	mg/L	0.1000		108		80-120	8.03	20	
Matrix Spike (B392500-MS1)		**Source: 24K1058-01**		Prepared & Analyzed: 11/18/24							
Hexavalent Chromium	0.066	0.0040	mg/L	0.1000	ND	**66.1**	*	85-115			MS-07A, H-10
Matrix Spike Dup (B392500-MSD1)		**Source: 24K1058-01**		Prepared & Analyzed: 11/18/24							
Hexavalent Chromium	0.073	0.0040	mg/L	0.1000	ND	**73.0**	*	85-115	9.95	20	H-10, MS-07A
Batch B393012 - SW-846 9010C											
Blank (B393012-BLK1)				Prepared: 11/24/24 Analyzed: 11/25/24							
Cyanide	ND	0.010	mg/L								
LCS (B393012-BS1)				Prepared: 11/24/24 Analyzed: 11/25/24							
Cyanide	0.32	0.010	mg/L	0.2999		107		80-120			
LCS Dup (B393012-BSD1)				Prepared: 11/24/24 Analyzed: 11/25/24							
Cyanide	0.35	0.010	mg/L	0.2999		116		80-120	7.63	20	
Matrix Spike (B393012-MS1)		**Source: 24K1058-01**		Prepared: 11/24/24 Analyzed: 11/25/24							
Cyanide	0.34	0.010	mg/L	0.2999	ND	112		75-125			
Matrix Spike Dup (B393012-MSD1)		**Source: 24K1058-01**		Prepared: 11/24/24 Analyzed: 11/25/24							
Cyanide	0.33	0.010	mg/L	0.2999	ND	110		75-125	1.66	20	

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BREAKDOWN REPORT

Lab Sample ID:	**S114172-PEM1**	**Analyzed:**	**11/19/2024**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	9.08
Endrin [1]	11.94

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	8.60
Endrin [2]	12.65

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B392244-BS1 Date(s) Analyzed: 11/15/2024 11/15/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.90	2.3
Aroclor-1260	1	0.000	0.000	0.000	0.94	
	2	0.000	0.000	0.000	1.0	6.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B392244-BSD1 Date(s) Analyzed: 11/15/2024 11/15/2024

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.80	
	2	0.000	0.000	0.000	0.82	2.5
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.89	7.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B392244-MS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.87	
	2	0.000	0.000	0.000	0.93	6.7
Aroclor-1260	1	0.000	0.000	0.000	0.95	
	2	0.000	0.000	0.000	1.1	14.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B392244-MSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	1.0	
	2	0.000	0.000	0.000	1.2	18.2
Aroclor-1260	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.3	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392245-BS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.395	5.366	5.426	1.6	
	2	5.351	5.321	5.381	1.7	6.1
4,4'-DDE	1	4.909	4.879	4.939	1.6	
	2	4.886	4.855	4.915	1.7	6.1
4,4'-DDT	1	5.625	5.596	5.656	1.5	
	2	5.606	5.575	5.635	1.8	18.2
Aldrin	1	4.145	4.115	4.175	1.5	
	2	4.019	3.989	4.049	1.6	6.5
alpha-BHC	1	3.262	3.232	3.292	1.6	
	2	3.151	3.121	3.181	1.8	11.8
alpha-Chlordane	1	4.845	4.815	4.875	1.5	
	2	4.741	4.710	4.770	1.6	6.5
beta-BHC	1	3.586	3.556	3.616	1.5	
	2	3.495	3.464	3.524	1.7	12.5
delta-BHC	1	3.729	3.699	3.759	1.5	
	2	3.721	3.691	3.751	1.5	0.0
Dieldrin	1	5.151	5.121	5.181	1.6	
	2	5.001	4.971	5.031	1.7	6.1
Endosulfan I	1	4.956	4.926	4.986	1.5	
	2	4.782	4.751	4.811	1.7	12.5
Endosulfan II	1	5.523	5.493	5.553	1.6	
	2	5.416	5.386	5.446	1.7	6.1
Endosulfan Sulfate	1	6.193	6.163	6.223	1.6	
	2	5.916	5.887	5.947	1.7	6.1
Endrin	1	5.341	5.311	5.371	1.6	
	2	5.244	5.214	5.274	1.7	6.1
Endrin Aldehyde	1	5.867	5.837	5.897	1.3	
	2	5.693	5.662	5.722	1.4	7.4
Endrin Ketone	1	6.383	6.353	6.413	1.6	
	2	6.291	6.261	6.321	1.7	6.1
gamma-BHC (Lindane)	1	3.518	3.487	3.547	1.6	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B392245-BS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.427	3.396	3.456	1.7	6.1
gamma-Chlordane	1	4.736	4.706	4.766	1.5	
	2	4.624	4.593	4.653	1.7	12.5
Heptachlor	1	3.902	3.872	3.932	1.6	
	2	3.769	3.738	3.798	1.7	6.1
Heptachlor Epoxide	1	4.636	4.606	4.666	1.6	
	2	4.473	4.442	4.502	1.7	6.1
Methoxychlor	1	6.014	5.985	6.045	1.6	
	2	6.144	6.114	6.174	1.7	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392245-BSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.395	5.366	5.426	1.6	
	2	5.351	5.321	5.381	1.7	6.1
4,4'-DDE	1	4.909	4.879	4.939	1.5	
	2	4.886	4.855	4.915	1.7	12.5
4,4'-DDT	1	5.626	5.596	5.656	1.5	
	2	5.605	5.575	5.635	1.7	12.5
Aldrin	1	4.145	4.115	4.175	1.4	
	2	4.020	3.989	4.049	1.6	13.3
alpha-BHC	1	3.263	3.232	3.292	1.6	
	2	3.152	3.121	3.181	1.7	6.1
alpha-Chlordane	1	4.845	4.815	4.875	1.5	
	2	4.741	4.710	4.770	1.6	6.5
beta-BHC	1	3.586	3.556	3.616	1.5	
	2	3.495	3.464	3.524	1.7	12.5
delta-BHC	1	3.729	3.699	3.759	1.5	
	2	3.721	3.691	3.751	1.6	6.5
Dieldrin	1	5.152	5.121	5.181	1.5	
	2	5.002	4.971	5.031	1.7	12.5
Endosulfan I	1	4.956	4.926	4.986	1.5	
	2	4.782	4.751	4.811	1.6	6.5
Endosulfan II	1	5.523	5.493	5.553	1.5	
	2	5.416	5.386	5.446	1.7	12.5
Endosulfan Sulfate	1	6.193	6.163	6.223	1.5	
	2	5.917	5.887	5.947	1.6	6.5
Endrin	1	5.341	5.311	5.371	1.5	
	2	5.243	5.214	5.274	1.6	6.5
Endrin Aldehyde	1	5.867	5.837	5.897	1.3	
	2	5.692	5.662	5.722	1.4	7.4
Endrin Ketone	1	6.382	6.353	6.413	1.5	
	2	6.290	6.261	6.321	1.6	6.5
gamma-BHC (Lindane)	1	3.518	3.487	3.547	1.5	

Pace Analytical Services, LLC - East Longmeadow, Ma

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B392245-BSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.427	3.396	3.456	1.6	6.5
gamma-Chlordane	1	4.736	4.706	4.766	1.5	
	2	4.623	4.593	4.653	1.6	6.5
Heptachlor	1	3.902	3.872	3.932	1.5	
	2	3.769	3.738	3.798	1.6	6.5
Heptachlor Epoxide	1	4.636	4.606	4.666	1.5	
	2	4.473	4.442	4.502	1.6	6.5
Methoxychlor	1	6.014	5.985	6.045	1.5	
	2	6.144	6.114	6.174	1.6	6.5

Pace Analytical Services, LLC - East Longmeadow, Ma

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392245-MS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.394	5.365	5.425	1.7	
	2	5.351	5.320	5.380	1.8	5.7
4,4'-DDE	1	4.908	4.879	4.939	1.4	
	2	4.885	4.855	4.915	1.5	6.9
4,4'-DDT	1	5.625	5.595	5.655	0.83	
	2	5.605	5.575	5.635	0.89	7.0
Aldrin	1	4.144	4.115	4.175	1.3	
	2	4.019	3.989	4.049	1.4	7.4
alpha-BHC	1	3.262	3.232	3.292	1.4	
	2	3.152	3.121	3.181	1.5	6.9
beta-BHC	1	3.585	3.556	3.616	1.2	
	2	3.495	3.464	3.524	1.3	8.0
delta-BHC	1	3.728	3.698	3.758	1.2	
	2	3.721	3.691	3.751	1.2	0.0
Dieldrin	1	5.150	5.121	5.181	1.4	
	2	5.001	4.971	5.031	1.5	6.9
Endosulfan I	1	4.955	4.925	4.985	1.4	
	2	4.781	4.751	4.811	1.5	6.9
Endosulfan II	1	5.522	5.493	5.553	1.4	
	2	5.416	5.386	5.446	1.5	6.9
Endosulfan Sulfate	1	6.192	6.162	6.222	1.2	
	2	5.916	5.886	5.946	1.3	8.0
Endrin	1	5.340	5.310	5.370	1.4	
	2	5.243	5.213	5.273	1.5	6.9
Endrin Aldehyde	1	5.866	5.836	5.896	1.3	
	2	5.692	5.663	5.723	1.4	7.4
Endrin Ketone	1	6.382	6.352	6.412	1.3	
	2	6.290	6.260	6.320	1.4	7.4
gamma-BHC (Lindane)	1	3.517	3.487	3.547	1.3	
	2	3.427	3.396	3.456	1.4	7.4
Heptachlor	1	3.901	3.871	3.931	1.2	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B392245-MS1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.769	3.738	3.798	1.3	8.0
Heptachlor Epoxide	1	4.635	4.605	4.665	1.4	
	2	4.472	4.442	4.502	1.5	6.9
Methoxychlor	1	6.013	5.984	6.044	0.90	
	2	6.143	6.113	6.173	0.95	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392245-MSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.395	5.365	5.425	1.8	
	2	5.350	5.320	5.380	1.9	5.4
4,4'-DDE	1	4.908	4.879	4.939	1.6	
	2	4.885	4.855	4.915	1.6	0.0
4,4'-DDT	1	5.625	5.595	5.655	0.98	
	2	5.605	5.575	5.635	1.0	2.0
Aldrin	1	4.144	4.115	4.175	1.4	
	2	4.020	3.989	4.049	1.5	6.9
alpha-BHC	1	3.262	3.232	3.292	1.5	
	2	3.152	3.121	3.181	1.6	6.5
beta-BHC	1	3.586	3.556	3.616	1.4	
	2	3.495	3.464	3.524	1.5	6.9
delta-BHC	1	3.728	3.698	3.758	1.4	
	2	3.721	3.691	3.751	1.4	0.0
Dieldrin	1	5.151	5.121	5.181	1.6	
	2	5.001	4.971	5.031	1.7	6.1
Endosulfan I	1	4.955	4.925	4.985	1.5	
	2	4.782	4.751	4.811	1.6	6.5
Endosulfan II	1	5.523	5.493	5.553	1.5	
	2	5.416	5.386	5.446	1.7	12.5
Endosulfan Sulfate	1	6.192	6.162	6.222	1.4	
	2	5.916	5.886	5.946	1.5	6.9
Endrin	1	5.340	5.310	5.370	1.5	
	2	5.243	5.213	5.273	1.6	6.5
Endrin Aldehyde	1	5.866	5.836	5.896	1.4	
	2	5.692	5.663	5.723	1.4	0.0
Endrin Ketone	1	6.382	6.352	6.412	1.5	
	2	6.290	6.260	6.320	1.6	6.5
gamma-BHC (Lindane)	1	3.517	3.487	3.547	1.4	
	2	3.427	3.396	3.456	1.5	6.9
Heptachlor	1	3.901	3.871	3.931	1.4	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B392245-MSD1 Date(s) Analyzed: 11/19/2024 11/19/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.769	3.738	3.798	1.5	6.9
Heptachlor Epoxide	1	4.635	4.605	4.665	1.5	
	2	4.472	4.442	4.502	1.6	6.5
Methoxychlor	1	6.013	5.984	6.044	1.1	
	2	6.143	6.113	6.173	1.1	0.0

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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.
H-10	Analysis was requested after the recommended holding time had passed.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-18	Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-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.

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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 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Aluminum	CT,NY,NH,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Water	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,VA,NC
Barium	MA,NY,CT,NH,NC,ME,VA
Beryllium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,NC,ME,VA
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,NC,ME,VA
Magnesium	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,NC,ME,VA
Manganese	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,NC,ME,VA
Thallium	CT,NH,NY,VA,NC
Thallium	CT,NH,NY,RI,NC,VA
Vanadium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7196A in Water	
Hexavalent Chromium	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Water	
alpha-Chlordane	NC

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	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
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
Diisopropyl Ether (DIPE)	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
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

Pace Analytical Services, LLC - East Longmeadow, Ma

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2025
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025
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

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24K1058 https://www.pacelabs.com/ RM Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC Consultant: Arcadis US Inc

Consultant Address: 816 Plank Road Suite 100, Clifton Park, NY, 12065

Consultant Phone: (518) 250-7340

Callout Project Name: Former Commander Oil Terminal Offsite

Project Location: Oyster Bay, NY

Callout Number: 151674

Site/Spill Number: C130044A

Project Manager: Steeven Imbaquingo

Pace Analytical Quote Name/Number: C100213

Invoice Recipient: NYSDEC

Sampled By: Andrew Gibson

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [X]
Email To: Stefan.Bagnato@arcadis.com
andrew.gibson@arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals + Mercury | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Cyanide Method 9010	PFAS TestAmerica Lab Comp.	1,4 Dioxane SIM
1	MW-1S	11/12/24/1310	—		X	GW	U	X	X	X	X	X	X	X		X
2	MW-1M	11/12/24/1450	—		X	GW	U	X								
3	MW-1D	11/12/24/1540	—		X	GW	U	X	X	X	X	X	X	X		
4	MW-2S	11/12/24/0925	—		X	GW	U	X	X				X			X
5	MW-2M	11/11/24/1227	—		X	GW	U	X								
6	MW-2D	11/11/24/1122	—		X	GW	U	X								
7	MW-3S	11/12/24/1304	—		X	GW	U	X	X	X	X	X	X	X		
8	MW-3M	11/11/24/1250	—		X	GW	U	X								
9	MW-3D	11/11/24/1020	—		X	GW	U	X								
10	MW-4S	11/12/24/1235	—		X	GW	U	X	X					X		X

# of Containers	3/a		4/12	4/12	1/2	2	1/3		2		
[2] Preservation Code	H	I	I	I	N	I	X		I		
[3] Container Code	V	A	A	A	P	P	P		A		

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
Field Filtered [ ]
Lab to Filter [X]

Orthophosphate Samples
Field Filtered [ ]
Lab to Filter [ ]

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: Dissolved metals for MW-3S to be lab filtered, please analyze total and dissolved metals (Preserved total metals bottle provided)
*MS/MSD on MW-1S for VOCs, PCBs, Pesticides, Cyanide

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) /Arcadis	Date/Time: 11/12/24/2034
Received by: (signature) Pace	Date/Time: 11/13 8:00
Relinquished by: (signature) Pace	Date/Time: 11/13 10:10
Received by: (signature) 2.1,2.5,2.6,2.5,2.0	Date/Time: 11/13/24 1010
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
AWQ STDS [ ] NY TOGS [ ]
NYC Sewer Discharge [ ] NY CP-51 [ ]
Part 360 GW (Landfill) [ ]
NY Restricted Use [ ]
NY Unrestricted Use [ ]
NY Part 375 [X]
Other:

Deliverables
Enhanced Data Package [ ]
NYSDEC EQuIS EDD [X]
EQuIS (Standard) EDD [ ]
NY Regulatory EDD [ ]
NY Regs Hits-Only EDD [ ]
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government [ ] Municipality [ ] MWRA [ ] WRTA [ ]
Federal [ ] 21 J [ ] School [ ]
City [ ] Brownfield [ ] MBTA [ ]

Other
Chromatogram [ ]
AIHA-LAP,LLC [ ]

PCB ONLY
Soxhlet [ ]
Non Soxhlet [ ]

Table of Contents

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis US Inc
Consultant Address:	846 Plank Rd, Suite 100, Clifton Park, NY, 12065
Consultant Phone:	(518) 250-7340
Callout Project Name:	Former Commander Oil Terminal offsite
Project Location:	Oyster Bay, NY
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbagwingo
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYSDEC
Sampled By:	Andrew Gibson

Requested Turnaround Time
- DEC Standard 30-calendar day [X]
- Due Date:

Rush (Prior Approval Required)
- 1-Day [ ] 2-Day [ ] 3-Day [ ]
- 4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
- Format: PDF [X] EXCEL [X]
- Other:
- CLP Like (Level 4) Data Pkg Required: [X]
- Email To: Stefan.bagwato@arcadis.com, Andrew.gibson@arcadis.com
- Fax To #:

3/2		2	4			1										# of Containers
H		I	I			X										[2] Preservation Code
W		A	A			P										[3] Container Code

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Cyanide Method 9010				
11	MW-4M	11/11/24/1449	—		X	GW	U	X										
12	MW-4D	11/11/24/1333	—		X	GW	U	X										
13	DUP-111124	11/12/24/—	—		X	GW	U	X		X	X			X				
14	Trip Blank-111124	11/11/24/—	—		X	W	C	X										

Dissolved Metals Samples
- [ ] Field Filtered
- [X] Lab to Filter

Orthophosphate Samples
- [ ] Field Filtered
- [ ] Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
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T = Sodium Thiosulfate
O = Other (please define)

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A = Amber Glass
G = Glass
P = Plastic
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V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Arcadis	Date/Time: 11/12/24/2034
Received by: (signature)	Pace	Date/Time: 11/13 8:00
Relinquished by: (signature)	Pace	Date/Time: 11/13 10:10
Received by: (signature)	2.1, 2.3, 2.6, 2.5, 2.0	Date/Time: 11/13/24 1010
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Program & Regulatory Information
- [ ] AWQ STDS
- [ ] NYC Sewer Discharge
- [ ] Part 360 GW (Landfill)
- [ ] NY Restricted Use
- [ ] NY Unrestricted Use
- [X] NY Part 375
- [ ] NY TOGS
- [ ] NY CP-51
- Other:

Deliverables
- [ ] Enhanced Data Package
- [X] NYSDEC EQuIS EDD
- [ ] EQuIS (Standard) EDD
- [ ] NY Regulatory EDD
- [ ] NY Regs Hits-Only EDD
- Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
- [ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
- [ ] Federal [ ] 21 J [ ] School
- [ ] City [ ] Brownfield [ ] MBTA

Other
- [ ] Chromatogram
- [ ] AIHA-LAP,LLC

PCB ONLY
- [ ] Soxhlet
- [ ] Non Soxhlet

Table of Contents

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

Effective Date: 06/11/2024

Log In Back-Sheet

Client: Arcadis (DEC)

Project: Former Commander Oil Terminal offsite

MCP/RCP Required: no

Deliverable Package Requirement: NY Cat B

Location: Oyster Bay, NY

PWSID# (When Applicable): n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time: ER 11/13/24 1010

Back-Sheet By / Date / Time: MM 11/19/24 0956

Temperature Method: Gun # 6

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

Temp < 6° C Actual Temperature: 20, 21, 23, 25, 26

Rush Samples: Yes / No Notify: No

Short Hold: Yes / No Notify: See notes

Notes regarding Samples/COC outside of SOP:

* Hex Chrome not requested on COC but volume received for sample #1

* Lab to filter hold (24-hour) expired three hours after arrival, metals notified

* One 500 ml plastic unp. marked for PFAS received for sample #13 (1033 not marked on COC)

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	☐ See notes	☑
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☐ See notes	☑
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☐
Trip Blanks	☑	☐
Lab to Filters	☑ See notes	☐
COC Legible	☑	☐

COC Included: (Check all included)

Client ☐ Analysis ☐ Sampler Name ☐

Project ☐ IDs ☐ Collection Date/Time ☐

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

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

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Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis US Inc
Consultant Address:	346 Plank Road Suite 100, Clifton Park, NY, 12065
Consultant Phone:	(518) 250-7340
Callout Project Name:	Former Commander Oil Terminal Offsite
Project Location:	Oyster Bay, NY
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbaguago
Pace Analytical Quote Name/Number:	C100913
Invoice Recipient:	NYSDEC
Sampled By:	Andrew Gibson

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

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4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [X]
Email To: Stefan.Bagnato@arcadis.com, andrew.gibson@arcadis.com
Fax To #:

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	MW-1S	11/12/24/1310	—		X	GW	U	X	X	X	X	X	X	X	X	X	X	X			X			
	MW-1M	11/12/24/1450	—		X	GW	U	X																
	MW-1D	11/12/24/1040	—		X	GW	U	X	X	X	X	X	X	X	X	X	X	X						
	MW-2S	11/12/24/0925	—		X	GW	U	X	X								X				X			
	MW-2M	11/11/24/1227	—		X	GW	U	X																
	MW-2D	11/11/24/1122	—		X	GW	U	X																
	MW-3S	11/12/24/1304	—		X	GW	U	X	X	X	X	X	X	X	X	X	X	X	X						
	MW-3M	11/11/24/1250	—		X	GW	U	X																
	MW-3D	11/11/24/1000	—		X	GW	U	X																
	MW-4S	11/12/24/1250	—		X	GW	U	X	X										X			X			

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples
[ ] Field Filtered
[X] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

Comments: Dissolved Metals for MW-3S to be lab filtered, please analyze total and dissolved metals (preserved total metals bottle provided)
*MS/MSD on MW-1S AG for VOCs, PCBs, Pesticides, Cyanide, Hexavalent Chromium

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature) Arcadis	Date/Time: 11/12/24/2034
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[X] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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Pace Analytical®

24K1058 REVISED

https://www.pacelabs.com/ Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 2 of 2

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC Consultant: Arcadis US Inc

Consultant Address: 846 Plank Rd, Suite 100, Clifton Park, NY, 12065

Consultant Phone: (518) 250-7340

Callout Project Name: Former Commander Oil Terminal offsite

Project Location: Oyster Bay, NY

Callout Number: 151674

Site/Spill Number: C130244A

Project Manager: Steeven Imbagwingo

Pace Analytical Quote Name/Number: C160913

Invoice Recipient: NYSDEC

Sampled By: Andrew Gibson

Requested Turnaround Time

DEC Standard 30-calendar day ☒

Due Date:

Rush (Prior Approval Required)

1-Day ☐ 2-Day ☐ 3-Day ☐

4-Day ☐ 5-Day ☐ 10-Day ☐

Data Delivery

Format: PDF ☒ EXCEL ☒

Other:

CLP Like (Level 4) Data Pkg Required: ☒

Email To: Stefan.bagento@arcadis.com
Andrew.gibson@arcadis.com

Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8151 Herbicide	8081 Pesticide	TAL Total Metals	TCLP RCRA 8 Metals	PFAS 537 ID	PFAS 1633	Cyanide method 9010	Hexavalent Chromium
	MW-4M	11/11/24/0938	—		X	GW	U	X											
	MW-4D	11/11/24/1333	—		X	GW	U	X											
	DUP-111224	11/12/24/—	—		X	GW	U	X			X	X					X	X	
	Trip Blank-11124	11/11/24/—	—		X	W	C	X											

9/2		2	4					1	1										
H		I	I					X	X										
W		A	A					P	P										

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

# of Containers

[2] Preservation Code

[3] Container Code

Dissolved Metals Samples

Field Filtered ☐

Lab to Filter ☒

Orthophosphate Samples

Field Filtered ☐

Lab to Filter ☐

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

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N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) / Arcadis	Date/Time: 11/12/24/2034
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information

AWQ STDS ☐ NY TOGS ☐

NYC Sewer Discharge ☐ NY CP-51 ☐

Part 360 GW (Landfill) ☐

NY Restricted Use ☐

NY Unrestricted Use ☐

NY Part 375 ☒

Other: ☐

Deliverables

Enhanced Data Package ☐

NYSDEC EQuIS EDD ☒

EQuIS (Standard) EDD ☐

NY Regulatory EDD ☐

NY Regs Hits-Only EDD ☐

Other: ☐

Project Entity

Government ☐ Municipality ☐ MWRA ☐ WRTA ☐

Federal ☐ 21 J ☐ School ☐

City ☐ Brownfield ☐ MBTA ☐

Other

Chromatogram ☐

AIHA-LAP,LLC ☐

PCB ONLY

Soxhlet ☐

Non Soxhlet ☐

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ANALYTICAL REPORT

Lab Number:	L2467064
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Raymond McCarthy
Phone:	(413) 525-2332
Project Name:	24K1058
Project Number:	24K1058
Report Date:	11/22/24

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

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

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

Project Name: 24K1058
Project Number: 24K1058

Lab Number: L2467064
Report Date: 11/22/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2467064-01	MW-1S	WATER	Not Specified	11/12/24 13:10	11/14/24
L2467064-02	MW-1D	WATER	Not Specified	11/12/24 10:40	11/14/24
L2467064-03	MW-3S	WATER	Not Specified	11/12/24 13:04	11/14/24
L2467064-04	DUP-111224	WATER	Not Specified	11/12/24 00:00	11/14/24

Project Name:	24K1058	**Lab Number:**	L2467064
Project Number:	24K1058	**Report Date:**	11/22/24

Case Narrative

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

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

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

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

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

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

Project Name: 24K1058 **Lab Number:** L2467064
Project Number: 24K1058 **Report Date:** 11/22/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 11/22/24

ORGANICS

PESTICIDES

Project Name: 24K1058 **Lab Number:** L2467064

Project Number: 24K1058 **Report Date:** 11/22/24

SAMPLE RESULTS

Lab ID: L2467064-01
Client ID: MW-1S
Sample Location: Not Specified

Date Collected: 11/12/24 13:10
Date Received: 11/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/19/24 17:25
Analyst: EMR

Extraction Method: EPA 8151A
Extraction Date: 11/18/24 19:46

Methylation Date: 11/19/24 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	A
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	A
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	84		30-150	B

Project Name: 24K1058 **Lab Number:** L2467064

Project Number: 24K1058 **Report Date:** 11/22/24

SAMPLE RESULTS

Lab ID: L2467064-02
Client ID: MW-1D
Sample Location: Not Specified

Date Collected: 11/12/24 10:40
Date Received: 11/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/19/24 18:24
Analyst: EMR

Extraction Method: EPA 8151A
Extraction Date: 11/17/24 21:55

Methylation Date: 11/19/24 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	A
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	A
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	89		30-150	B

Project Name: 24K1058 **Lab Number:** L2467064

Project Number: 24K1058 **Report Date:** 11/22/24

SAMPLE RESULTS

Lab ID: L2467064-03
Client ID: MW-3S
Sample Location: Not Specified

Date Collected: 11/12/24 13:04
Date Received: 11/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/19/24 18:42
Analyst: EMR

Extraction Method: EPA 8151A
Extraction Date: 11/17/24 21:55

Methylation Date: 11/19/24 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	A
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	A
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	88		30-150	B

Project Name: 24K1058 **Lab Number:** L2467064

Project Number: 24K1058 **Report Date:** 11/22/24

SAMPLE RESULTS

Lab ID: L2467064-04
Client ID: DUP-111224
Sample Location: Not Specified

Date Collected: 11/12/24 00:00
Date Received: 11/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 11/19/24 19:02
Analyst: EMR

Extraction Method: EPA 8151A
Extraction Date: 11/17/24 21:55

Methylation Date: 11/19/24 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	A
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	A
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	86		30-150	B

Project Name: 24K1058 **Lab Number:** L2467064

Project Number: 24K1058 **Report Date:** 11/22/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 11/19/24 14:49
Analyst: EMR

Extraction Method: EPA 8151A
Extraction Date: 11/17/24 21:55

Methylation Date: 11/18/24 16:36

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1998656-1						
MCPP	ND		ug/l	500	58.5	A
MCPA	ND		ug/l	500	63.2	A
Dalapon	ND		ug/l	20.0	0.810	A
Dicamba	ND		ug/l	1.00	0.243	A
Dichloroprop	ND		ug/l	10.0	0.564	A
2,4-D	ND		ug/l	10.0	0.498	A
2,4-DB	ND		ug/l	10.0	0.729	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A
Dinoseb	ND		ug/l	5.00	0.573	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	101		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 24K1058
Project Number: 24K1058

Lab Number: L2467064
Report Date: 11/22/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1998656-2 WG1998656-3									
MCPP	106		101		30-150	5		25	A
MCPA	96		91		30-150	5		25	A
Dalapon	86		76		30-150	12		25	A
Dicamba	103		96		30-150	7		25	A
Dichloroprop	107		98		30-150	9		25	A
2,4-D	100		94		30-150	6		25	A
2,4-DB	123		113		30-150	8		25	A
2,4,5-T	102		94		30-150	8		25	A
2,4,5-TP (Silvex)	99		93		30-150	6		25	A
Dinoseb	71		66		30-150	7		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	104		99		30-150	A
DCAA	117		111		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 24K1058 ***Lab Number:*** L2467064

Project Number: 24K1058 ***Report Date:*** 11/22/24

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*	*Column*
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1998656-4 WG1998656-5 QC Sample: L2467064-01 Client ID: MW-1S													
MCPP	ND	500	554	111		518	104		30-150	7		25	A
MCPA	ND	500	495J	99		456J	91		30-150	8		25	A
Dalapon	ND	5	4.16J	83		3.77J	75		30-150	10		25	A
Dicamba	ND	5	5.44	109		5.02	100		30-150	8		25	A
Dichloroprop	ND	5	5.31J	106		5.36J	107		30-150	1		25	A
2,4-D	ND	5	5.16J	103		4.74J	95		30-150	8		25	A
2,4-DB	ND	5	5.44J	109		5.33J	107		30-150	2		25	A
2,4,5-T	ND	5	4.99	100		4.64	93		30-150	7		25	A
2,4,5-TP (Silvex)	ND	5	5.10	102		4.74	95		30-150	7		25	A
Dinoseb	ND	5	3.59J	72		3.16J	63		30-150	13		25	A

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*	*Column*
DCAA	95		89		30-150	A
DCAA	107		100		30-150	B

Project Name: 24K1058
Project Number: 24K1058

Lab Number: L2467064
Report Date: 11/22/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2467064-01A	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-01A1	Amber 1L unpreserved	D	6	6	3.7	Y	Absent		HERB-8151(7)
L2467064-01A2	Amber 1L unpreserved	D	6	6	3.7	Y	Absent		HERB-8151(7)
L2467064-01B	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-01B1	Amber 1L unpreserved	D	6	6	3.7	Y	Absent		HERB-8151(7)
L2467064-01B2	Amber 1L unpreserved	D	6	6	3.7	Y	Absent		HERB-8151(7)
L2467064-02A	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-02B	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-03A	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-03B	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-04A	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)
L2467064-04B	Amber 1L unpreserved	A	6	6	4.9	Y	Absent		HERB-8151(7)

*Values in parentheses indicate holding time in days

Project Name:	24K1058	**Lab Number:**	L2467064
Project Number:	24K1058	**Report Date:**	11/22/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K1058	**Lab Number:**	L2467064
Project Number:	24K1058	**Report Date:**	11/22/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	24K1058	**Lab Number:**	L2467064
Project Number:	24K1058	**Report Date:**	11/22/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 24K1058
Project Number: 24K1058

Lab Number: L2467064
Report Date: 11/22/24

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L2467064
CONTEST

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K1058

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

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

Analysis	Sample Name	Due	Expires	Comments
Sample ID: 24K1058-01	**MW-1S**	**Water** **Sampled:**	**11/12/24 13:10**	**MS/MSD**
S-8151 DER TCL		12/13/24 14:00	11/19/24 13:10	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			
Sample ID: 24K1058-03	**MW-1D**	**Water** **Sampled:**	**11/12/24 10:40**	
S-8151 DER TCL		12/13/24 14:00	11/19/24 10:40	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			
Sample ID: 24K1058-07	**MW-3S**	**Water** **Sampled:**	**11/12/24 13:04**	
S-8151 DER TCL		12/13/24 14:00	11/19/24 13:04	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			
Sample ID: 24K1058-13	**DUP-111224**	**Water** **Sampled:**	**11/12/24 00:00**	
S-8151 DER TCL		12/13/24 14:00	11/19/24 00:00	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			

Released By	11/14/24 1630 Date	Received By	11-14-24 1630 Date
Released By	11-14-24 1750 Date	Received By	11/14 1750 Date

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

AK1658 https://www.pacelabs.com/ RM Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Page 1 of 2

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: Arcadis US Inc
Consultant Address:	6th Floor Road Suite 100, Clifton Park, NY, 12065
Consultant Phone:	(518) 250-7340
Callout Project Name:	Former Commander Oil Terminal Offsite
Project Location:	Oyster Bay, NY
Callout Number:	151674
Site/Spill Number:	C130244A
Project Manager:	Steeven Imbagwiago
Pace Analytical Quote Name/Number:	C100413
Invoice Recipient:	NYSDEC
Sampled By:	Andrew Gibson

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [X]
Email To: Steven.Bagwiago@arcadis.com
andrew.gibson@arcadis.com
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticide	8151 Herbicide	Cal Total Metals	PFAS 537 ID	PFAS 1633	Cyanide method 9010	PFAS TestAmerica	1,4 Dioxane SIM			# of Containers
								3/a		3/a	4/a	1/2	2	1/3		2						
								H	I	I	I	N	I	X		I						[2] Preservation Code
								V	A	A	A	P	P	P		A						[3] Container Code
1	MW-1S	11/12/24/1310	—		X	GW	U	X	X	X	X	X	X	X	X	X	X		X			
2	MW-1M	11/12/24/1450	—		X	GW	U	X														
3	MW-1D	11/12/24/1540	—		X	GW	U	X	X	X	X	X	X	X	X	X	X					
4	MW-2S	11/12/24/1625	—		X	GW	U	X	X							X			X			
5	MW-2M	11/12/24/1427	—		X	GW	U	X														
6	MW-2D	11/12/24/1522	—		X	GW	U	X														
7	MW-3S	11/12/24/1314	—		X	GW	U	X	X	X	X	X	X	X	X	X	X					
8	MW-3M	11/12/24/1250	—		X	GW	U	X														
9	MW-3D	11/12/24/1020	—		X	GW	U	X														
10	MW-4S	11/12/24/1235	—		X	GW	U	X	X								X		X			

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Dissolved Metals Samples: [ ] Field Filtered [X] Lab to Filter

Orthophosphate Samples: [ ] Field Filtered [ ] Lab to Filter

[1] **Matrix Codes:** GW = Ground Water, WW = Waste Water, DW = Drinking Water, A = Air, S = Soil, SL = Sludge, SOL = Solid, O = Other (please define)

[2] **Preservation Codes:** I = Iced, H = HCL, M = Methanol, N = Nitric Acid, S = Sulfuric Acid, B = Sodium Bisulfate, X = Sodium Hydroxide, T = Sodium Thiosulfate, O = Other (please define)

[3] **Container Codes:** A = Amber Glass, G = Glass, P = Plastic, ST = Sterile, V = Vial, S = Summa Canister, T = Tedlar Bag, O = Other (please define)

Comments: Dissolved Metals for MW-3S to be lab Filtered, please analyze total and dissolved metals (Preserved total metals bottle Provided)
*MS/MSD on MW-1S for VOCs, PCBs, Pesticides, Cyanide

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Arcadis	Date/Time: 11/12/24/2034
Received by: (signature)	Pace	Date/Time: 11/13 8:00
Relinquished by: (signature)	Pace	Date/Time: 11/14 10:10
Received by: (signature)	21,23,26,25,20	Date/Time: 11/13/24 1010
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[X] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

Pace Analytical
Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/ Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC Consultant: Arcadis US Inc
Consultant Address: 846 Plank Rd, Suite 100, Clifton Park, NY, 12065
Consultant Phone: (518) 250-7340
Callout Project Name: Former Commander Oil Terminal Offsite
Project Location: Oyster Bay, NY
Callout Number: 151674
Site/Spill Number: C130244A
Project Manager: Steeven Imbagliazzo
Pace Analytical Quote Name/Number: C100413
Invoice Recipient: NYSDEC
Sampled By: Andrew Gibson

Requested Turnaround Time
DEC Standard 30-calendar day [X]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [X]
Email To: Steeven.Imbagliazzo@arcadis.com
Andrew.Gibson@arcadis.com
Fax To #:

																						# of Containers
3/2		2	4			1																[2] Preservation Code
H		I	I			X																[3] Container Code
W		A	A			P																

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane-SIM / 8082 PCBs	8081 Pesticide / 8151 Herbicide	TAL Total Metals / TCLP RCRA 8 Metals	PFAS 1633 / PFAS 537 ID	Cyanide Method 9010
11	MW-4M	11/11/24/0939	—		X	GW	U	X						
12	MW-4D	11/11/24/1333	—		X	GW	U	X						
13	DUP-111224	11/12/24/—	—		X	GW	U	X		X	X			X
14	Trip Blank-111124	11/11/24/—	—		X	W	C	X						

Dissolved Metals Samples
[ ] Field Filtered
[X] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Arcadis	11/12/24/2034
Received by: (signature)	Date/Time:
Pace	11/13 8:00
Relinquished by: (signature)	Date/Time:
Pace	11/13 10:10
Received by: (signature)	Date/Time:
1,23,26,25,20	11/13/24 1010
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
[ ] AWQ STDS [ ] NY TOGS
[ ] NYC Sewer Discharge [ ] NY CP-51
[ ] Part 360 GW (Landfill)
[ ] NY Restricted Use
[ ] NY Unrestricted Use
[X] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

L2467064

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

24K1058

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Raymond J. McCarthy

RECEIVING LABORATORY:

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

Additional Volume for L2467064-01

Analysis	Sample Name	Due	Expires	Comments
Sample ID: 24K1058-01	**MW-1S**	**Water** **Sampled:**	**11/12/24 13:10**	**MS/MSD**
S-8151 DER TCL		12/13/24 14:00	11/19/24 13:10	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)	1 L amber (E)	1 L amber (F)	1 L amber (G)
1 L amber (H)				
Sample ID: 24K1058-03	**MW-1D**	**Water** **Sampled:**	**11/12/24 10:40**	
S-8151 DER TCL		12/13/24 14:00	11/19/24 10:40	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			
Sample ID: 24K1058-07	**MW-3S**	**Water** **Sampled:**	**11/12/24 13:04**	
S-8151 DER TCL		12/13/24 14:00	11/19/24 13:04	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			
Sample ID: 24K1058-13	**DUP-111224**	**Water** **Sampled:**	**11/12/24 00:00**	
S-8151 DER TCL		12/13/24 14:00	11/19/24 00:00	CAT B Report to MDL
Containers Supplied:				
1 L amber (A)	1 L amber (B)			

Released By	Date	Received By	Date
	11/18/24 1630		11-18-24 1630
	11-18-24 1810		11/18/24 1810

Page 1 of 1

ANALYTICAL REPORT

Lab Number:	L2466371
Client:	NYDEC - Arcadis US Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065
ATTN:	Steeven Imbaquingo
Phone:	(518) 250-7300
Project Name:	FORMER COMMANDER OIL - OFFSITE
Project Number:	CO 151674/S C130244A
Report Date:	12/13/24

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Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2466371-01	SG-1	SOIL_VAPOR	OYSTER BAY, NY	11/12/24 10:33	11/13/24
L2466371-02	SG-2	SOIL_VAPOR	OYSTER BAY, NY	11/12/24 10:31	11/13/24
L2466371-03	DUP-20241112	SOIL_VAPOR	OYSTER BAY, NY	11/12/24 10:33	11/13/24
L2466371-04	AA-20241112	AIR	OYSTER BAY, NY	11/12/24 10:36	11/13/24
L2466371-05	UNUSED CAN 2910	AIR	OYSTER BAY, NY		11/13/24

Project Name:	FORMER COMMANDER OIL - OFFSITE	**Lab Number:**	L2466371
Project Number:	CO 151674/S C130244A	**Report Date:**	12/13/24

Case Narrative

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

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

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

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

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

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

Project Name:	FORMER COMMANDER OIL - OFFSITE	**Lab Number:**	L2466371
Project Number:	CO 151674/S C130244A	**Report Date:**	12/13/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 28, and November 11, 2024. The canister certification data is provided as an addendum.

Sample Receipt

The client used the canister serial numbers on COC instead of the canister ID numbers.

L2466371-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2466371-01: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2466371-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2466371-03: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/13/24

AIR

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-01
Client ID: SG-1
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 02:02
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.409	0.200	0.050	2.02	0.989	0.247		1
Chloromethane	0.254	0.200	0.076	0.525	0.413	0.156		1
Freon-114	0.016	0.050	0.006	0.112	0.349	0.045	J	1
Vinyl chloride	0.079	0.020	0.009	0.202	0.051	0.023		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Ethanol	1.62	5.00	1.35	3.05	9.42	2.54	J	1
Trichlorofluoromethane	0.175	0.050	0.009	0.983	0.281	0.052		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Tert-Butyl Alcohol	2.49	0.500	0.134	7.55	1.52	0.406		1
Methylene chloride	0.111	0.500	0.110	0.386	1.74	0.382	J	1
Freon-113	0.059	0.050	0.008	0.452	0.383	0.064		1
trans-1,2-Dichloroethene	2.38	0.020	0.009	9.44	0.079	0.036		1
1,1-Dichloroethane	0.335	0.020	0.009	1.36	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	1.60	0.500	0.132	4.72	1.47	0.389		1
cis-1,2-Dichloroethene	99.8	0.020	0.010	396	0.079	0.040	E	1
Chloroform	0.228	0.020	0.007	1.11	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
n-Hexane	0.126	0.200	0.047	0.444	0.705	0.166	J	1
1,1,1-Trichloroethane	0.019	0.020	0.006	0.104	0.109	0.032	J	1
Benzene	0.070	0.100	0.030	0.224	0.319	0.095	J	1
Carbon tetrachloride	0.046	0.020	0.011	0.289	0.126	0.069		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-01
Client ID: SG-1
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Cyclohexane	0.112	0.200	0.031	0.386	0.688	0.108	J	1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	18.2	0.020	0.006	97.8	0.107	0.032		1
2,2,4-Trimethylpentane	0.076	0.200	0.037	0.355	0.934	0.173	J	1
Heptane	0.358	0.200	0.031	1.47	0.820	0.128		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	0.220	0.100	0.017	0.829	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	0.072	0.020	0.007	0.488	0.136	0.050		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	0.072	0.020	0.009	0.313	0.087	0.037		1
p/m-Xylene	0.267	0.040	0.018	1.16	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	0.019	0.020	0.008	0.081	0.085	0.034	J	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	0.103	0.020	0.009	0.447	0.087	0.038		1
1,3,5-Trimethylbenzene	0.015	0.020	0.010	0.074	0.098	0.047	J	1
1,2,4-Trimethylbenzene	0.225	0.020	0.008	1.11	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-01
Client ID: SG-1
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dichlorobenzene	0.063	0.020	0.008	0.379	0.120	0.045		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	0.151	0.050	0.021	0.792	0.262	0.110		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	83		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	89		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-01 D
Client ID: SG-1
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 14:51
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
cis-1,2-Dichloroethene	91.0	0.100	0.051	361	0.396	0.202		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	96		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-02
Client ID: SG-2
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:31
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 02:41
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.365	0.200	0.050	1.80	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	0.014	0.050	0.006	0.098	0.349	0.045	J	1
Vinyl chloride	0.030	0.020	0.009	0.077	0.051	0.023		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Ethanol	1.47	5.00	1.35	2.77	9.42	2.54	J	1
Trichlorofluoromethane	0.158	0.050	0.009	0.888	0.281	0.052		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Tert-Butyl Alcohol	0.197	0.500	0.134	0.597	1.52	0.406	J	1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	0.053	0.050	0.008	0.406	0.383	0.064		1
trans-1,2-Dichloroethene	0.054	0.020	0.009	0.214	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	0.178	0.500	0.132	0.525	1.47	0.389	J	1
cis-1,2-Dichloroethene	1.78	0.020	0.010	7.06	0.079	0.040		1
Chloroform	0.214	0.020	0.007	1.05	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
n-Hexane	ND	0.200	0.047	ND	0.705	0.166		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	0.047	0.100	0.030	0.150	0.319	0.095	J	1
Carbon tetrachloride	0.048	0.020	0.011	0.302	0.126	0.069		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-02
Client ID: SG-2
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:31
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Cyclohexane	0.113	0.200	0.031	0.389	0.688	0.108	J	1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	11.8	0.020	0.006	63.4	0.107	0.032		1
2,2,4-Trimethylpentane	ND	0.200	0.037	ND	0.934	0.173		1
Heptane	0.378	0.200	0.031	1.55	0.820	0.128		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	0.260	0.100	0.017	0.980	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	0.010	0.020	0.009	0.077	0.154	0.070	J	1
Tetrachloroethene	0.076	0.020	0.007	0.515	0.136	0.050		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	0.063	0.020	0.009	0.274	0.087	0.037		1
p/m-Xylene	0.232	0.040	0.018	1.01	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	0.023	0.020	0.008	0.098	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	0.097	0.020	0.009	0.421	0.087	0.038		1
1,3,5-Trimethylbenzene	0.011	0.020	0.010	0.054	0.098	0.047	J	1
1,2,4-Trimethylbenzene	0.281	0.020	0.008	1.38	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-02
Client ID: SG-2
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:31
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dichlorobenzene	0.058	0.020	0.008	0.349	0.120	0.045		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	0.141	0.050	0.021	0.739	0.262	0.110		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-03
Client ID: DUP-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 03:19
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.366	0.200	0.050	1.81	0.989	0.247		1
Chloromethane	0.241	0.200	0.076	0.498	0.413	0.156		1
Freon-114	0.015	0.050	0.006	0.105	0.349	0.045	J	1
Vinyl chloride	0.077	0.020	0.009	0.197	0.051	0.023		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Ethanol	ND	5.00	1.35	ND	9.42	2.54		1
Trichlorofluoromethane	0.160	0.050	0.009	0.899	0.281	0.052		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Tert-Butyl Alcohol	0.139	0.500	0.134	0.421	1.52	0.406	J	1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	0.055	0.050	0.008	0.422	0.383	0.064		1
trans-1,2-Dichloroethene	2.23	0.020	0.009	8.84	0.079	0.036		1
1,1-Dichloroethane	0.329	0.020	0.009	1.33	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	0.200	0.500	0.132	0.590	1.47	0.389	J	1
cis-1,2-Dichloroethene	95.3	0.020	0.010	378	0.079	0.040	E	1
Chloroform	0.216	0.020	0.007	1.05	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
n-Hexane	ND	0.200	0.047	ND	0.705	0.166		1
1,1,1-Trichloroethane	0.025	0.020	0.006	0.136	0.109	0.032		1
Benzene	0.064	0.100	0.030	0.204	0.319	0.095	J	1
Carbon tetrachloride	0.046	0.020	0.011	0.289	0.126	0.069		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-03
Client ID: DUP-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Cyclohexane	0.092	0.200	0.031	0.317	0.688	0.108	J	1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	17.6	0.020	0.006	94.6	0.107	0.032		1
2,2,4-Trimethylpentane	ND	0.200	0.037	ND	0.934	0.173		1
Heptane	0.301	0.200	0.031	1.23	0.820	0.128		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	0.203	0.100	0.017	0.765	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	0.061	0.020	0.007	0.414	0.136	0.050		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	0.067	0.020	0.009	0.291	0.087	0.037		1
p/m-Xylene	0.254	0.040	0.018	1.10	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	0.018	0.020	0.008	0.077	0.085	0.034	J	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	0.101	0.020	0.009	0.439	0.087	0.038		1
1,3,5-Trimethylbenzene	0.010	0.020	0.010	0.049	0.098	0.047	J	1
1,2,4-Trimethylbenzene	0.293	0.020	0.008	1.44	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-03
Client ID: DUP-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dichlorobenzene	0.059	0.020	0.008	0.355	0.120	0.045		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	0.123	0.050	0.021	0.645	0.262	0.110		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	84		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	90		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-03 D
Client ID: DUP-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:33
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 15:19
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
cis-1,2-Dichloroethene	81.7	0.100	0.051	324	0.396	0.202		5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-04
Client ID: AA-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:36
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/06/24 22:05
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.393	0.200	0.050	1.94	0.989	0.247		1
Chloromethane	0.425	0.200	0.076	0.878	0.413	0.156		1
Freon-114	0.015	0.050	0.006	0.105	0.349	0.045	J	1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Ethanol	ND	5.00	1.35	ND	9.42	2.54		1
Trichlorofluoromethane	0.170	0.050	0.009	0.955	0.281	0.052		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Tert-Butyl Alcohol	0.199	0.500	0.134	0.603	1.52	0.406	J	1
Methylene chloride	0.159	0.500	0.110	0.552	1.74	0.382	J	1
Freon-113	0.057	0.050	0.008	0.437	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	0.014	0.020	0.007	0.068	0.098	0.035	J	1
1,2-Dichloroethane	0.013	0.020	0.008	0.053	0.081	0.034	J	1
n-Hexane	0.152	0.200	0.047	0.536	0.705	0.166	J	1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	0.101	0.100	0.030	0.323	0.319	0.095		1
Carbon tetrachloride	0.075	0.020	0.011	0.472	0.126	0.069		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-04
Client ID: AA-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:36
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Cyclohexane	0.092	0.200	0.031	0.317	0.688	0.108	J	1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
2,2,4-Trimethylpentane	0.162	0.200	0.037	0.757	0.934	0.173	J	1
Heptane	0.398	0.200	0.031	1.63	0.820	0.128		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	0.354	0.100	0.017	1.33	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	0.043	0.020	0.007	0.292	0.136	0.050		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	0.101	0.020	0.009	0.439	0.087	0.037		1
p/m-Xylene	0.388	0.040	0.018	1.69	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	0.024	0.020	0.008	0.102	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	0.142	0.020	0.009	0.617	0.087	0.038		1
1,3,5-Trimethylbenzene	0.016	0.020	0.010	0.079	0.098	0.047	J	1
1,2,4-Trimethylbenzene	0.276	0.020	0.008	1.36	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

SAMPLE RESULTS

Lab ID: L2466371-04
Client ID: AA-20241112
Sample Location: OYSTER BAY, NY

Date Collected: 11/12/24 10:36
Date Received: 11/13/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dichlorobenzene	0.070	0.020	0.008	0.421	0.120	0.045		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	0.176	0.050	0.021	0.923	0.262	0.110		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	87		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/06/24 19:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-04 Batch: WG2006265-4								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Ethanol	ND	5.00	1.35	ND	9.42	2.54		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Tert-Butyl Alcohol	ND	0.500	0.134	ND	1.52	0.406		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
n-Hexane	ND	0.200	0.047	ND	0.705	0.166		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1
Cyclohexane	ND	0.200	0.031	ND	0.688	0.108		1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/06/24 19:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-04 Batch: WG2006265-4								
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
2,2,4-Trimethylpentane	ND	0.200	0.037	ND	0.934	0.173		1
Heptane	ND	0.200	0.031	ND	0.820	0.128		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
1,3,5-Trimethylbenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/06/24 19:26

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-04 Batch: WG2006265-4								
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 14:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2006435-4								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Ethanol	ND	5.00	1.35	ND	9.42	2.54		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Tert-Butyl Alcohol	ND	0.500	0.134	ND	1.52	0.406		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
n-Hexane	ND	0.200	0.047	ND	0.705	0.166		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1
Cyclohexane	ND	0.200	0.031	ND	0.688	0.108		1
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 14:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2006435-4								
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
2,2,4-Trimethylpentane	ND	0.200	0.037	ND	0.934	0.173		1
Heptane	ND	0.200	0.031	ND	0.820	0.128		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
1,3,5-Trimethylbenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A
Lab Number: L2466371
Report Date: 12/13/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 12/07/24 14:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,03 Batch: WG2006435-4								
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG2006265-3								
Dichlorodifluoromethane	99		-		70-130	-		25
Chloromethane	91		-		70-130	-		25
Freon-114	102		-		70-130	-		25
Vinyl chloride	91		-		70-130	-		25
Bromomethane	101		-		70-130	-		25
Chloroethane	101		-		70-130	-		25
Ethanol	83		-		40-160	-		25
Trichlorofluoromethane	84		-		70-130	-		25
1,1-Dichloroethene	100		-		70-130	-		25
Tert-Butyl Alcohol[1]	87		-		70-130	-		25
Methylene chloride	97		-		70-130	-		25
Freon-113	84		-		70-130	-		25
trans-1,2-Dichloroethene	86		-		70-130	-		25
1,1-Dichloroethane	89		-		70-130	-		25
Methyl tert butyl ether	78		-		70-130	-		25
2-Butanone	93		-		70-130	-		25
cis-1,2-Dichloroethene	86		-		70-130	-		25
Chloroform	84		-		70-130	-		25
1,2-Dichloroethane	83		-		70-130	-		25
n-Hexane	115		-		70-130	-		25
1,1,1-Trichloroethane	96		-		70-130	-		25
Benzene	100		-		70-130	-		25
Carbon tetrachloride	96		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG2006265-3								
Cyclohexane	113		-		70-130	-		25
1,2-Dichloropropane	112		-		70-130	-		25
Bromodichloromethane	110		-		70-130	-		25
1,4-Dioxane	103		-		70-130	-		25
Trichloroethene	96		-		70-130	-		25
2,2,4-Trimethylpentane	118		-		70-130	-		25
Heptane	116		-		70-130	-		25
cis-1,3-Dichloropropene	106		-		70-130	-		25
4-Methyl-2-pentanone	120		-		70-130	-		25
trans-1,3-Dichloropropene	109		-		70-130	-		25
1,1,2-Trichloroethane	104		-		70-130	-		25
Toluene	84		-		70-130	-		25
Dibromochloromethane	91		-		70-130	-		25
1,2-Dibromoethane	87		-		70-130	-		25
Tetrachloroethene	77		-		70-130	-		25
Chlorobenzene	82		-		70-130	-		25
Ethylbenzene	81		-		70-130	-		25
p/m-Xylene	85		-		70-130	-		25
Bromoform	85		-		70-130	-		25
Styrene	80		-		70-130	-		25
1,1,2,2-Tetrachloroethane	96		-		70-130	-		25
o-Xylene	84		-		70-130	-		25
1,3,5-Trimethylbenzene	81		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG2006265-3								
1,2,4-Trimethylbenzene	81		-		70-130	-		25
Benzyl chloride	83		-		70-130	-		25
1,3-Dichlorobenzene	78		-		70-130	-		25
1,4-Dichlorobenzene	76		-		70-130	-		25
1,2-Dichlorobenzene	75		-		70-130	-		25
1,2,4-Trichlorobenzene	77		-		70-130	-		25
Naphthalene	77		-		70-130	-		25
Hexachlorobutadiene	73		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2006435-3								
Dichlorodifluoromethane	78		-		70-130	-		25
Chloromethane	70		-		70-130	-		25
Freon-114	85		-		70-130	-		25
Vinyl chloride	**68**	Q	-		70-130	-		25
Bromomethane	76		-		70-130	-		25
Chloroethane	**68**	Q	-		70-130	-		25
Ethanol	67		-		40-160	-		25
Trichlorofluoromethane	77		-		70-130	-		25
1,1-Dichloroethene	75		-		70-130	-		25
Tert-Butyl Alcohol[1]	90		-		70-130	-		25
Methylene chloride	85		-		70-130	-		25
Freon-113	80		-		70-130	-		25
trans-1,2-Dichloroethene	**69**	Q	-		70-130	-		25
1,1-Dichloroethane	**69**	Q	-		70-130	-		25
Methyl tert butyl ether	80		-		70-130	-		25
2-Butanone	**69**	Q	-		70-130	-		25
cis-1,2-Dichloroethene	71		-		70-130	-		25
Chloroform	82		-		70-130	-		25
1,2-Dichloroethane	76		-		70-130	-		25
n-Hexane	92		-		70-130	-		25
1,1,1-Trichloroethane	89		-		70-130	-		25
Benzene	86		-		70-130	-		25
Carbon tetrachloride	96		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2006435-3								
Cyclohexane	95		-		70-130	-		25
1,2-Dichloropropane	72		-		70-130	-		25
Bromodichloromethane	94		-		70-130	-		25
1,4-Dioxane	81		-		70-130	-		25
Trichloroethene	77		-		70-130	-		25
2,2,4-Trimethylpentane	94		-		70-130	-		25
Heptane	78		-		70-130	-		25
cis-1,3-Dichloropropene	92		-		70-130	-		25
4-Methyl-2-pentanone	78		-		70-130	-		25
trans-1,3-Dichloropropene	99		-		70-130	-		25
1,1,2-Trichloroethane	79		-		70-130	-		25
Toluene	**68**	Q	-		70-130	-		25
Dibromochloromethane	71		-		70-130	-		25
1,2-Dibromoethane	73		-		70-130	-		25
Tetrachloroethene	**63**	Q	-		70-130	-		25
Chlorobenzene	**67**	Q	-		70-130	-		25
Ethylbenzene	**67**	Q	-		70-130	-		25
p/m-Xylene	70		-		70-130	-		25
Bromoform	74		-		70-130	-		25
Styrene	70		-		70-130	-		25
1,1,2,2-Tetrachloroethane	74		-		70-130	-		25
o-Xylene	71		-		70-130	-		25
1,3,5-Trimethylbenzene	73		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,03 Batch: WG2006435-3								
1,2,4-Trimethylbenzene	74		-		70-130	-		25
Benzyl chloride	75		-		70-130	-		25
1,3-Dichlorobenzene	70		-		70-130	-		25
1,4-Dichlorobenzene	71		-		70-130	-		25
1,2-Dichlorobenzene	**68**	Q	-		70-130	-		25
1,2,4-Trichlorobenzene	**65**	Q	-		70-130	-		25
Naphthalene	**67**	Q	-		70-130	-		25
Hexachlorobutadiene	**62**	Q	-		70-130	-		25

Project Name: FORMER COMMANDER OIL - OFFSITE

Lab Number: L2466371

Project Number: CO 151674/S C130244A

Report Date: 12/13/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2466371-01	SG-1	01715	Flow 2	11/11/24	493325		-	-	-	Pass	40.2	41.3	3
L2466371-01	SG-1	4358	6.0L Can	10/28/24	491185	L2459517-03	Pass	-29.2	-4.0	-	-	-	-
L2466371-02	SG-2	0374	Flow 2	10/28/24	491185		-	-	-	Pass	40.5	41.3	2
L2466371-02	SG-2	2844	6.0L Can	10/28/24	491185	L2459185-03	Pass	-29.1	-3.7	-	-	-	-
L2466371-03	DUP-20241112	01921	Flow 2	11/11/24	493325		-	-	-	Pass	40.0	41.4	3
L2466371-03	DUP-20241112	3949	6.0L Can	11/11/24	493325	L2464095-06	Pass	-29.2	-3.6	-	-	-	-
L2466371-04	AA-20241112	02142	Flow 2	10/28/24	491185		-	-	-	Pass	40.0	38.9	3
L2466371-04	AA-20241112	2647	6.0L Can	10/28/24	491185	L2460722-08	Pass	-293	-7.8	-	-	-	-
L2466371-05	UNUSED CAN 2910	01601	Flow 2	10/28/24	491185		-	-	-	Pass	40.3	39.4	2
L2466371-05	UNUSED CAN 2910	2910	6.0L Can	11/11/24	493325	L2464095-06	Pass	-29.1	-2.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/14/24 21:04
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/14/24 21:04
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459185
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459185-03
Client ID: CAN 1709 SHELF 65
Sample Location:

Date Collected: 10/10/24 15:00
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/13/24 20:19
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2459517

Project Number: CANISTER QC BAT **Report Date:** 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/13/24 20:19
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2459517
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2459517-03
Client ID: CAN 2575 SHELF 38
Sample Location:

Date Collected: 10/12/24 07:00
Date Received: 10/12/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 10/22/24 16:54
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2460722

Project Number: CANISTER QC BAT **Report Date:** 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 10/22/24 16:54
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2460722
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2460722-08
Client ID: CAN 1695 SHELF 34
Sample Location:

Date Collected: 10/18/24 09:00
Date Received: 10/18/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 11/05/24 17:52
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	0.500	0.272	ND	1.23	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.078	ND	1.05	0.409		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 11/05/24 17:52
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2464095
Report Date: 12/13/24

Air Canister Certification Results

Lab ID: L2464095-06
Client ID: CAN 2102 SHELF 38-39
Sample Location:

Date Collected: 11/04/24 10:00
Date Received: 11/04/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	91		60-140

Project Name: FORMER COMMANDER OIL - OFFSITE
Project Number: CO 151674/S C130244A

Lab Number: L2466371
Report Date: 12/13/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2466371-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		NYDEC-TO15-SIM(30)
L2466371-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		NYDEC-TO15-SIM(30)
L2466371-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		NYDEC-TO15-SIM(30)
L2466371-04A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		NYDEC-TO15-SIM(30)
L2466371-05A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	FORMER COMMANDER OIL - OFFSITE	**Lab Number:**	L2466371
Project Number:	CO 151674/S C130244A	**Report Date:**	12/13/24

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER COMMANDER OIL - OFFSITE	**Lab Number:**	L2466371
Project Number:	CO 151674/S C130244A	**Report Date:**	12/13/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Project Number:	CO 151674/S C130244A	**Report Date:**	12/13/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: FORMER COMMANDER OIL - OFFSITE **Lab Number:** L2466371

Project Number: CO 151674/S C130244A **Report Date:** 12/13/24

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11-13-24

ALPHA Job #: L2466371

Client Information

Client: NYSDEC / Arcadis USInc
Address: 846 Plank Rd suite 100, Clifton Park, NY, 12065
Phone: (518) 250-7300
Fax:
Email: stefan.bingulago@arcadis.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Former Commander Oil Terminal - DFS Site
Project Location: Oyster Bay, NY
Project #: Callout: 151674 / C130244A
Project Manager: Steeven Imbaquingo
ALPHA Quote #: C100913

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☒ Additional Deliverables: Level IV, EQuIS
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

DEC Callout: 151674
Site No: C130244A
Contract No: C100913

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Can; 2910 1st used (low pressure)

Other Project Specific Requirements/Comments: report in ug/m³, see project specific reporting limits

Project-Specific Target Compound List: ☐ 0.25 ug/m³ - trichloroethylene, carbon tetrachloride, vinyl chloride
1.0 ug/m³ for all other analytes

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
066371 -01	SG-1	11/12/24	0835	1033	30.14	4.55	SV	AG	6L	4595	01715	X					
-02	SG-2	11/12/24	0836	1031	29.71	4.03	SV	AG	6L	3473	03774	X					
-03	DUP-20241112	11/12/24	0835	1033	~~34.49~~ AG 30.03	~~8.07~~ AG 4.34	SV	AG	6L	4946	01921	X					
-04	AA-2024/1112	11/12/24	0833	1036	34.99	8.07	AA	AG	6L	4447	02142	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: 6L's

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Andrew Gibson/Arcadis	11/12/24 2101		11-12-24 1115
	11/13 M 0130		11/13/24 0130
Tnascag	11/13/24 05:00		11/13/24 05W
J. Mendoza	11/12/24 0730	Hanah	11-13-24 0730

Form No: 101-02 Rev: (25-Sep-15)

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