NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**Division of Environmental Remediation, Region 9**
700 Delaware Avenue, Buffalo, NY 14209
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www.dec.ny.gov

June 28, 2023

Homer Street Properties, LLC
R. Donald Benson
130 South Union Street
Suite 300
Olean, NY 14760

**Re: Periodic Review Report (PRR) Response Letter**
**Oregon Road Site, Site No.: C905045**
**Olean (C), Cattaraugus County**

Dear R. Donald Benson (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: December 31, 2021 to April 17, 2023.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on May 17, 2024. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

Additionally, the Department has the following comments that need to be included in the future PRRs:

1) Section 3.2.1.2, PFAS: the groundwater results for future monitoring events will be compared to the *2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series No. 1.1.1*; and

2) Section 4.1, Conclusion: it is not clear if the detections of perfluorooctanesulfonic acid (PFOS) above guidance values downgradient of the PlumeStop barrier is indicative of breakthrough or if it is due to other factors. Additional assessment of the PlumeStop barrier is requested in subsequent PRRs. Such assessment should include an evaluation of the relevant hydrogeological, chemical, and physical data that could impact the effectiveness of the PlumeStop barrier/material.

If you have any questions on the above comments, please contact me at 716-851-7220 or benjamin.mcpherson@dec.ny.gov.

Sincerely,

DN: cn=Benjamin McPherson, o=NYSDEC, ou=DER, email=benjamin.mcpherson@dec.ny.gov, c=US
Date: 2023.06.28 11:54:40 -04'00'

Benjamin McPherson, P.E.
Project Manager
Professional Engineer 1 (Environmental)

ec:

Andrea Caprio – NYSDEC
Benjamin McPherson – NYSDEC
R. Donald Benson – HSP (dbenson@benson-construction.com)
Michael Lesakowski – Benchmark (MLesakowski@Turnkeyllc.com)
Lori Riker – Benchmark (LRiker@benchmarkees.com)

# Periodic Review Report

*Oregon Road Site*
*BCP Site No. C905045*
*Olean, New York*

May 2023 0311-022-001

Prepared For:

Homer Street Properties, LLC
Olean, New York

Prepared By:

BENCHMARK

In Association With:

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218 | phone: (716) 856-0599 | fax: (716) 856-0583

# PERIODIC REVIEW REPORT

## OREGON ROAD SITE
## BCP SITE NO. C905045

## OLEAN, NEW YORK

May 2023 0311-022-001

Prepared for:

**Homer Street Properties, LLC**

Prepared By:

Benchmark Civil/Environmental Engineering & Geology, PLLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0599

In Association with:

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
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# PERIODIC REVIEW REPORT
## Oregon Road Site

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# PERIODIC REVIEW REPORT
## Oregon Road Site

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### APPENDICES

# 1.0 INTRODUCTION

Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) on behalf of Homer Street Properties, LLC (HSP) (Owner) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C905045 located in Olean, Cattaraugus County, New York (Site; see Figure 1).

This PRR has been prepared for the Site in accordance with NYSDEC DER-10/ Technical Guidance for Site Investigation and Remediation (Ref. 1). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form completed for the Site is included as Appendix A.

This PRR has been completed for the post-remedial activities at the Site for the period December 17, 2021 to April 17, 2023. The annual Site inspection was completed by Benchmark on April 14, 2023.

## 1.1 Site Background

The Oregon Road Site was originally developed in the1890s to early 1900s for the oil industry and used as a petroleum storage tank farm. The Site appears to be the ExxonMobil Legacy Site (EMLS) Works #3 area, identified as Socony Vacuum and Felmont Oil. Based on historical records, tanks appear to have been removed in the 1960s. Since that time, the Site has been vacant, undeveloped land. However, numerous underground pipes remained on-Site, the majority of which were removed during remedial activities. Additionally, an abandoned pipeline originally owned by Buckeye Oil Company traversed the eastern portion of the Site which was removed during remedial activities.

Homer Street Properties, LLC (HSP) entered into a Brownfield Cleanup Agreement (BCA) (BCP Site No. C905045) with the NYSDEC on December 1, 2016 (Index No. C905045-10-16) to investigate and remediate the original approximate 24.65-acre Oregon Road parcel (SBL No. 94.001-2-13.2) located in Olean, Cattaraugus County, New York. In October 2018, HSP submitted a BCP application amendment to add the south adjacent 3.65-acre Homer Street Extension (SBL No. 94.001-2-13.8) to the BCP Site and remove an approximate 3.73-acre portion of the Oregon Road parcel on the western side of the BCP site due to steep topography and heavily wooded land, which renders this portion of the parcel undevelopable. The BCP amendment was accepted by the Department on January 15, 2019.

Therefore, the "BCP Site" or "Site" referenced through this report refers to the approximate 24.57-acre area shown on Figure 1 and 2.

## 1.2 Purpose/Scope

The Site Management Plan (SMP) requires, among other things, periodic inspection, and certification that the IC/ECs implemented at the Site remain in place and are functioning as designed. This PRR serves that purpose as well as documenting post-remedial actions taken since the Certificate of Completion (COC) was issued on December 17, 2021.

# 2.0 SITE OVERVIEW

The Site is in the County of Cattaraugus, City/Town of Olean, New York and contains the following parcels located at the northwest corner of Oregon Road and Homer Street:

- Oregon Road: (a portion of) SBL No. 94.001-2-13.2; 20.92-acres
- Homer Street Extension: SBL No. 94.001-2-13.8; 3.65-acres

The approximately 24.57-acre Oregon Road Site is bounded by vacant wooded land to the north/northwest; a commercial/industrial property to the southwest; Homer Street and several commercial/industrial properties to the south/southeast; and Oregon Road and three residential properties to the east/northeast. The Site is currently vacant land with a paved asphalt access road.

Remedial activities were performed in accordance with the NYSDEC-approved Remedial Action Work Plan (Ref. 2) between November 2020 and August 2021. The Site was remediated to NYSDEC Part 375 Track 4 Commercial soil cleanup objectives (CSCOs) and site-specific action limits (SSALs) for use in a commercial redevelopment capacity. The SMP (Ref. 3) and Final Engineering Report (FER; Ref. 4) were approved by the Department on December 14, 2021 and December 17, 2021. The COC was recorded on January 11, 2022. Figure 3 is an aerial view of the Site following remediation. Remedial activities are described in the following sections.

## 2.1 Remedial Action Activities

### *2.1.1 Grossly Contaminated Soil (GCS) Excavation Activities*

Between November 9, 2020 and March 12, 2021, approximately 33,768 tons of non-hazardous soil/fill was excavated, transported by multiple 6NYCRR Part 364-registered hauling companies, and disposed at Waste Management's (WM) Chaffee Landfill located in Chaffee, New York. During excavation and disposal activities, WM indicated that material was "operationally challenging" and required the material be amended. As such, Portland cement was added and mixed with impacted soil/fill to stabilize the material and it was deemed acceptable by the WM Chaffee Landfill. A total of 340 tons of cement was mixed into the impacted soil/fill for stabilization purposes.

Twenty-three post-excavation end-point sidewall samples and 32 post-excavation end-point bottom samples were collected from areal and vertical excavation extents. All post-excavation end-point sample results were below the SSALs.

During excavation activities and after the excavation area was determined to achieve Remedial Action Objectives (RAOs) with no exceedances of SSALs (field screening and confirmatory post-excavation sampling), the excavation was backfilled with Department-approved on-site overburden to redevelopment subgrade then filled and graded with a minimum 12-inch cover system consisting of Department-approved fill materials and/or topsoil in accordance with DER-10.

### *2.1.2 SVOC-Impacted Non-hazardous Soil/Fill*

Between November 6 and 9, 2020 approximately 816 tons of non-hazardous soil/fill impacted by semi-volatile organic compounds (SVOCs) was excavated, transported by multiple 6NYCRR Part 364 registered hauling companies, and disposed at the WM Chaffee Landfill located in Chaffee, New York.

Eight post-excavation end-point sidewall samples and three post-excavation end-point bottom samples were collected from areal and vertical excavation extents. All post-excavation end-point sample results were below the SSALs.

During excavation activities and after the excavation area was determined to achieve RAOs with no exceedances of SSALs (field screening and confirmatory post-excavation sampling), the excavation was backfilled with Department-approved on-site overburden to redevelopment subgrade then filled and graded with a minimum 12-inch cover system consisting of Department-approved fill materials and/or topsoil in accordance with DER-10.

### *2.1.3 PFAS-Impacted Soil/Fill Stabilization*

During the RI, four distinct treatment zones (TZ), identified as TP-52, and TP-54 TZ-1 through TP-54 TZ-3, were delineated requiring in-situ stabilization using Powder Activated Carbon (PAC) due to impacts from PFAS (perfluoroalkyl and polyfluoroalkyl substances). As a result of a supplemental investigation completed during the remedial construction work, TP-54 TZ-3 was split in half (TP-54 TZ-3A and TP-54 TZ-3B). As such, five distinct areas were treated and stabilized as follows:

- TP-52: 0-2 in.; 9,200 ft$^2$; 56 cy; 1,700 pounds PAC

- TP-54 TZ-1: 0-2 ft; 4,400 ft²; 326 cy; 10,200 pounds PAC
- TP-54 TZ-2: 0-3 ft; 3,150 ft²; 349 cy; 10,200 pounds PAC
- TP-54 TZ-3A: 0-11 ft; 1,691 ft²; 689 cy; 13,600 pounds PAC
- TP-54 TZ-3B: 0-5 ft; 1,691 ft²; 313 cy; 5,100 pounds PAC

Five post-treatment end-point composite samples were collected, one composite per treatment zone. All post-excavation end-point sample results were below the SSALs.

### *2.1.4 Additional Materials Removal – Subsurface Piping*

Known and anticipated subsurface piping was removed and cleaned during remedial activities and in accordance with the Department-approved RAWP. Approximately 4,188 linear feet (LF) of scrap metal was transported by Benson Construction & Development, LLC for recycling at Ben Weitsman of Allegheny located in Allegheny, New York. Two areas within the southeastern portion of the Site were impacted by residual petroleum product remaining in the pipes. Soil/fill in contact with the petroleum product was segregated, excavated, and included in the GCS material tonnage previously summarized in Section 2.1.1.

### *2.1.5 PlumeStop Liquid Activated Carbon Application*

Injection and application of PlumeStop® liquid activated carbon was completed between August 12 and 18, 2021. Prior to injection activities, a downgradient monitoring well was installed south of Two-Mile Creek for future monitoring to determine the success of the remedial injection activities. The monitoring well, identified as MW-16, was installed on July 19, 2021. All wells on-site were gauged prior to injection activities to monitor groundwater levels. During injection activities, a total of 50 injection points were completed by Regenesis Remediation Services (RRS) along an approximate 100 LF section with a target injection zone between 12 and 18 feet below ground surface (fbgs), depending on grade elevations. All injection activities were completed in accordance with the Department-approved RAWP. Nearby wells, MW-12 (upgradient) and MW-16 (downgradient), along with a temporary piezometer, were continuously monitored during injection activities to determine areal application of PlumeStop. Approximately 5,600 pounds of PlumeStop was applied during the remedial injection activities. All permits, approvals, RRS reports, and daily summaries are provided in the FER.

### *2.1.6 Groundwater Monitoring*

As a requirement of the Department-approved RAWP, two wells (MW-2R and MW-9) proximate the residences east of the Site were sampled before, during, and after remedial excavation activities. A total of six groundwater samples (excluding QA/QC samples) were collected. During remedial excavation activities, several SVOCs were identified above their respective NYSDEC Class GA groundwater quality standards/guidance values (GWQS/GV) at well MW-9. However, all compounds were identified as either non-detect or well below their respective GWQS/GVs after the remedial excavation was complete.

In addition to groundwater sampling, all on-site wells were gauged monthly to monitor groundwater levels during remedial activities. Samples were collected in accordance with DER-10 and the Department-approved RAWP.

# 3.0 SITE MANAGEMENT PLAN

The Department-approved SMP includes an IC/EC Plan, a Monitoring and Sampling Plan, an Excavation Work Plan (EWP), and a copy of the Environmental Easement. The Site remedy does not rely on any mechanical systems (e.g., sub-slab depressurization systems, groundwater pump and treat, or soil vapor extraction systems) to protect public health and the environment; therefore, an Operation and Maintenance (O&M) Plan is not required for the Site. A brief description of the components of the SMP is presented below.

## 3.1 IC/EC Plan

As detailed in the Environmental Easement, several IC/ECs need to be maintained as a requirement of the BCA.

### *3.1.1 Institutional Controls*

- Groundwater-Use Restriction: The use of groundwater for potable and non-potable purposes is prohibited.
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use.
- Implementation of the SMP: The EWP must be followed.

### *3.1.2 Engineering Controls*

- In-Situ Groundwater Treatment Wall: Treatment monitored via groundwater monitoring schedule.
- Groundwater Monitoring: Groundwater is to be monitored semi-annually with monitoring events completed in June 2022 and January 2023.
- Cover System: The cover system is to be inspected annually. As of the April 14, 2023 inspection, the cover system is intact and functioning as intended.

### *3.1.3 Site Inspection & IC/EC Compliance*

On April 14, 2023, Ms. Lori Riker, Benchmark's Certifying Professional Engineer, performed a Site visit and assessment. During this visit, the Site covered by this PRR was found to be compliant with the IC/EC requirements. Appendix A includes the completed and P.E.-certified IC/EC Form for the Site.

## 3.2 Monitoring and Sampling Plan

The Monitoring and Sampling Plan specifies the methods used for:

- Sampling and analysis of groundwater
- Site-wide inspection
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

### *3.2.1 Groundwater Sampling and Analysis*

Groundwater sampling was conducted June 14, 2022 and January 3, 2023 at wells MW-2R, MW-5, MW-7, MW-8, MW-9, MW-12, MW-13, MW-15, and MW-16. Samples were analyzed for target compound list (TCL) + Commissioner Policy 51 (CP-51) volatile organic compounds (VOCs) and tentatively identified compounds (TICs) using USEPA Method 8260 and TCL + CP-51 SVOCs and TICs via USEPA Method 8270. Wells MW-12 and MW-16 were analyzed for PFAS via USEPA Method 537.1 by isotope dilution. Appendix C includes field notes and analytical data packages for this sampling event. Table 1 summarizes current and historic groundwater elevations. Table 2 summarizes the analytical results as well as historic groundwater quality data. According to the Data Usability Summary Report (DUSR), included as Appendix C, results for the samples are usable either as reported or with minor qualification, with the following exceptions, which are rejected and not usable: 1,4-dioxane results derived from the volatile fraction are not usable and trichloroethylene (TCE) detected in June 2022 and acetone detected in January 2023 (except at well MW-15) results are considered contaminated and edited to reflect non-detection due to presence in the associated blank. The data was submitted to the Department's EQuIS database and approval is pending.

#### *3.2.1.1 Groundwater Elevations*

Figures 4 and 5 provide isopotential maps for groundwater elevation data collected during the June 2022 and January 2023 sampling events. Overall groundwater flow direction is toward the southeast, consistent with historic groundwater contour maps. This indicates that wells MW-2R, MW-4, MW-6, MW-7, MW-8, MW-9, and MW-13 are upgradient and wells MW-5, MW-10, MW-11, MW-12, MW-13, MW-15, and MW-16 are downgradient.

*3.2.1.2 Analytical Data*

**VOCs**

The June 2022 and January 2023 groundwater concentrations indicate all VOCs were either not detected or detected at concentrations below the GWQS/GVs except for acetone detected at 230 ug/L (GWQS/GV = 50 ug/L) at well MW-15. VOC TIC concentrations were detected at wells MW-2R, MW-5, MW-8, MW-13, and MW-15 during the June 2022 and/or January 2023 sampling events. The maximum detected concentration was 28 ug/L at well MW-2R in June 2022, which decreased to 3.53 ug/L during the January 2023 event. All other VOC TIC concentrations were less than 5 ug/L. VOC TIC concentrations have either decreased or stayed consistent with historic results where applicable.

**SVOCs**

The June 2022 groundwater concentrations indicate all SVOCs were either not detected or detected at concentrations below the NYSDEC Class GA GWQS/GVs except for benzo(b)fluoranthene, which was detected exceeding its GWQS/GVs at well MW-7. The January 2023 groundwater concentrations at wells MW-4, MW-5, and MW-7 were either not detected or detected at concentrations below the NYSDEC Class GA GWQS/GVs. Wells MW-2R, MW-8, MW-9, MW-13, WM-15, and MW-16 had detections of benzo(a)pyrene and/or benzo(b)fluoranthene above the NYSDEC Class GA GWQS/GVs. Well MW-2R had two additional SVOC exceedances, chrysene and indeno(1,2,3-cd)pyrene. Detected SVOC TIC concentrations ranged from 6.2 ug/L (MW-9) to 243 ug/L (MW-13) between the two sampling events. SVOC TIC concentrations in wells MW-2R, MW-13, and MW-15 significantly decreased between July 2018 and January 2023; MW-2R decreased from 659 ug/L to 73.3 ug/L; MW-13 decreased from 3,946 ug/L to 306 ug/L; and MW-15 decreased from 729 ug/L to 120 ug/L.

**PFAS**

Perflourooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) results at well MW-12 during the June 2022 (222 ng/L and 42.8 ng/L) and January 2023 (239 ng/L and 50.3 ng/L) monitoring events exceeded the NYSDEC November 2022 guidance value of 10 ng/L, although the PFOS concentration decreased by more than half compared to pre-remediation concentrations. PFOS at MW-16 exceeded its NYSDEC November 2022

guidance value during both monitoring events but was a magnitude lower than June 2022 and January 2023 concentrations in well MW-12. The June 2022 and January 2023 PFOA results at well MW-16 were below NYSDEC November 2022 guidance value.

### *3.2.2 Site-Wide Inspection - Cover System Monitoring*

The existing cover system is comprised of a minimum of 12-inches of DER-10 compliant soil/gravel/stone material over a demarcation layer and hardscape asphalt access road. A demarcation layer provides a visual reference to the top of the remaining contamination zone, which is the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in the SMP. Figure 7 depicts the final cover system types and details.

A portion of existing undisturbed soil/fill located in the southeastern portion of the Site (south of Two-Mile Creek) was tested to ensure it met the CSCOs. Based on analytical results and with approval from NYSDEC, this area did not require placement of additional cover soil. An additional area north of the residential properties along Oregon Road was also left undisturbed to maintain a mature tree line between residents and future on-site redevelopment. The heavy brush and mature trees were left in-place in this area in consultation with the Department.

In accordance with the SMP, the cover system must be maintained and replaced in the event it is breached as described in the EWP (SMP Appendix E). The cover is to be inspected on an annual basis and following severe storm events. If frequent areas of distress are noted, they will be repaired based on the following conditions.

If the type of cover system changes from that which exists (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent PRR. The key maintenance concerns and corrective actions are provided below:

- Vegetative Soil Cover Monitoring
  - Areas where erosion problems (i.e., rills or gullies) are observed will be repaired by re-grading the localized area, adding the required fill material and/or topsoil, and reseeding/replanting.

- If burrowing animals are observed breaching the soil cover, as evidenced by exposed fill material, they will be eradicated by a licensed exterminator.

- Gravel/Stone Cover Monitoring
  - Ruts or erosion along the access roads will be repaired by re-grading the localized area and adding additional material.

At the time of the Site inspection, two areas of the Site showed little grass cover. These areas will be reseeded if growth is not observed by late spring/early summer. Some of the stone along Two-Mile Creek and the drainage swale shifted over the winter but will be restored to previous conditions. Appendix B includes a photographic log showing the vegetated soil, stone/gravel, and hardscape cover systems, and general Site conditions at the time of the April 14, 2023 inspection.

# 4.0 CONCLUSIONS AND RECOMMENDATIONS

## 4.1 Conclusions

Based on observations during the April 14, 2023 inspection, the Site covered by this PRR was fully compliant with the IC/EC requirements except for minor cover system repairs to be completed in the spring.

The first two rounds of post-COC groundwater monitoring indicate an overall improvement in the groundwater quality. Additional groundwater monitoring will be completed to track acetone and SVOC exceedances. PFOS and PFOA at well MW-12 continue to exceed the NYSDEC guidance value but PFOS has decreased by an order of magnitude as compared to the March 2019 result. PFOS at well MW-16 slightly exceeded the NYSDEC guidance value of 10 ng/L during the June 2022 (21.8 ng/L) and January 2023 (35.9 ng/L) events. The remainder of groundwater results were either non-detect or at concentrations below the NYSDEC GA GWQS/GVs.

## 4.2 Recommendations

As indicated Section 3.2.2, two areas of the Site will be reseeded if growth is not observed by late spring/early summer and stone along Two-Mile Creek and the drainage swale will be restored to previous conditions. Per the SMP, the next two semi-annual groundwater monitoring events are planned for June and December 2023.

# 5.0 DECLARATION/LIMITATION

Benchmark Civil/Environmental Engineering & Geology, PLLC, personnel conducted the annual site inspection for BCP Site No. C905045, Olean, New York, according to generally accepted practices. This report complied with the scope of work provided to Homer Street Properties, LLC by Benchmark Civil/Environmental Engineering & Geology, PLLC.

This report has been prepared for the exclusive use of Homer Street Properties, LLC. The contents of this report are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of Homer Street Properties, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Civil/Environmental Engineering & Geology, PLLC.

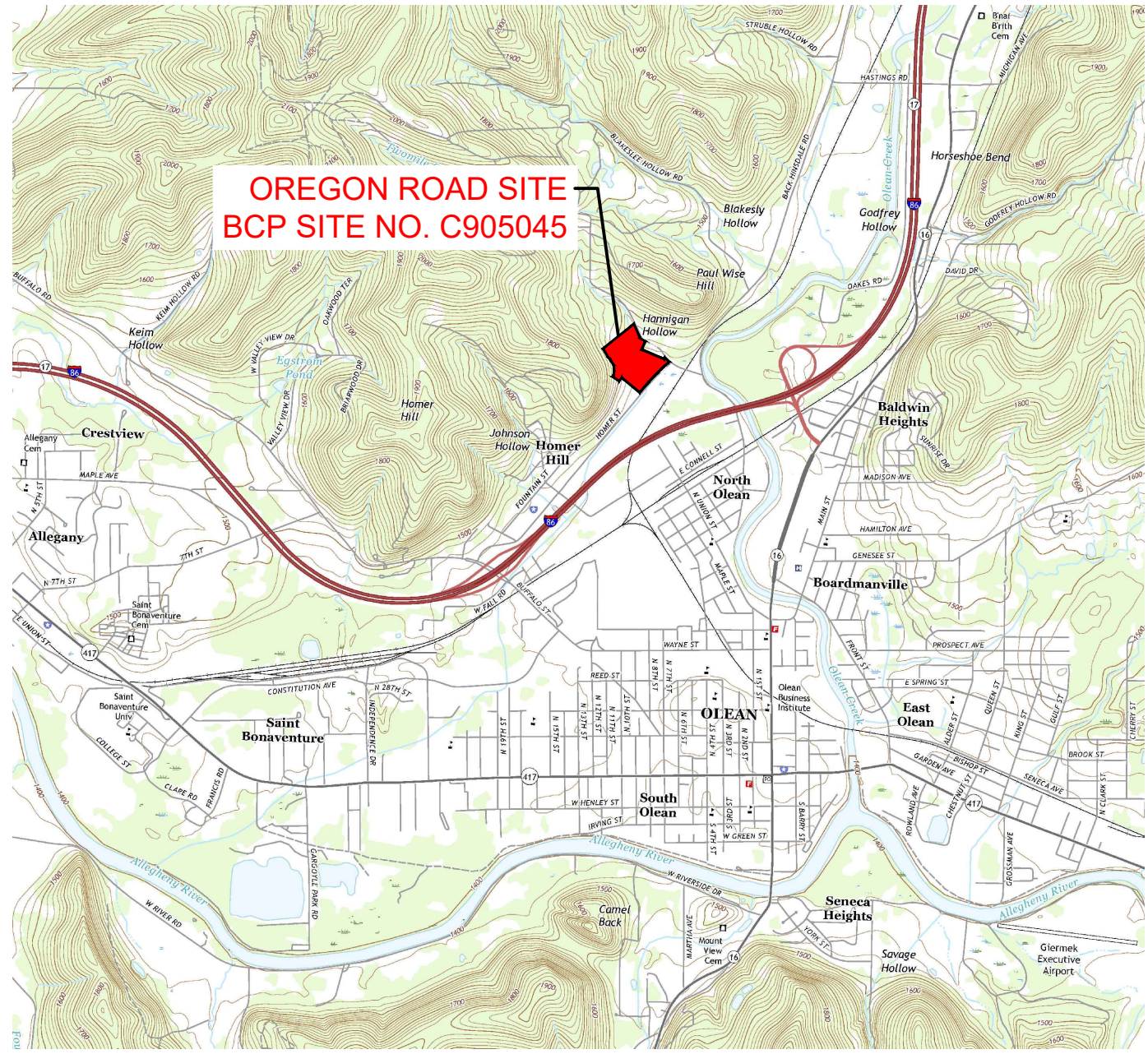
# 6.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10/Technical Guidance for Site Investigation and Remediation.* May 2010.
2. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Remedial Action Work Plan (RAWP), Oregon Road Site, Olean, New York, BCP Site #C905045.* Revised September 2020.
3. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Site Management Plan, Oregon Road Site, Site Number: C905045, Olean, New York.* December 2021.
4. Benchmark Civil/Environmental Engineering & Geology, PLLC in association with TurnKey Environmental Restoration, LLC. *Final Engineering Report, Oregon Road Site, BCP Site Number: C905045, Olean, New York.* Revised December 2021.

# FIGURES

F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2023 PRR 3pt65 Acre Portion\Figure 1; Site Location and Vicinity Map.dwg, 4/21/2023 12:38:23 PM

# FIGURE 1




3,500' 0' 3,500' 7,000'

SCALE: 1 INCH = 3,500 FEET
SCALE IN FEET
(approximate)


QUADRANGLE LOCATION

NOTE: BASE MAP USGS OLEAN, NY QUADRANGLE 2016

BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0311-022-001

DATE: APRIL 2021

DRAFTED BY: CMS

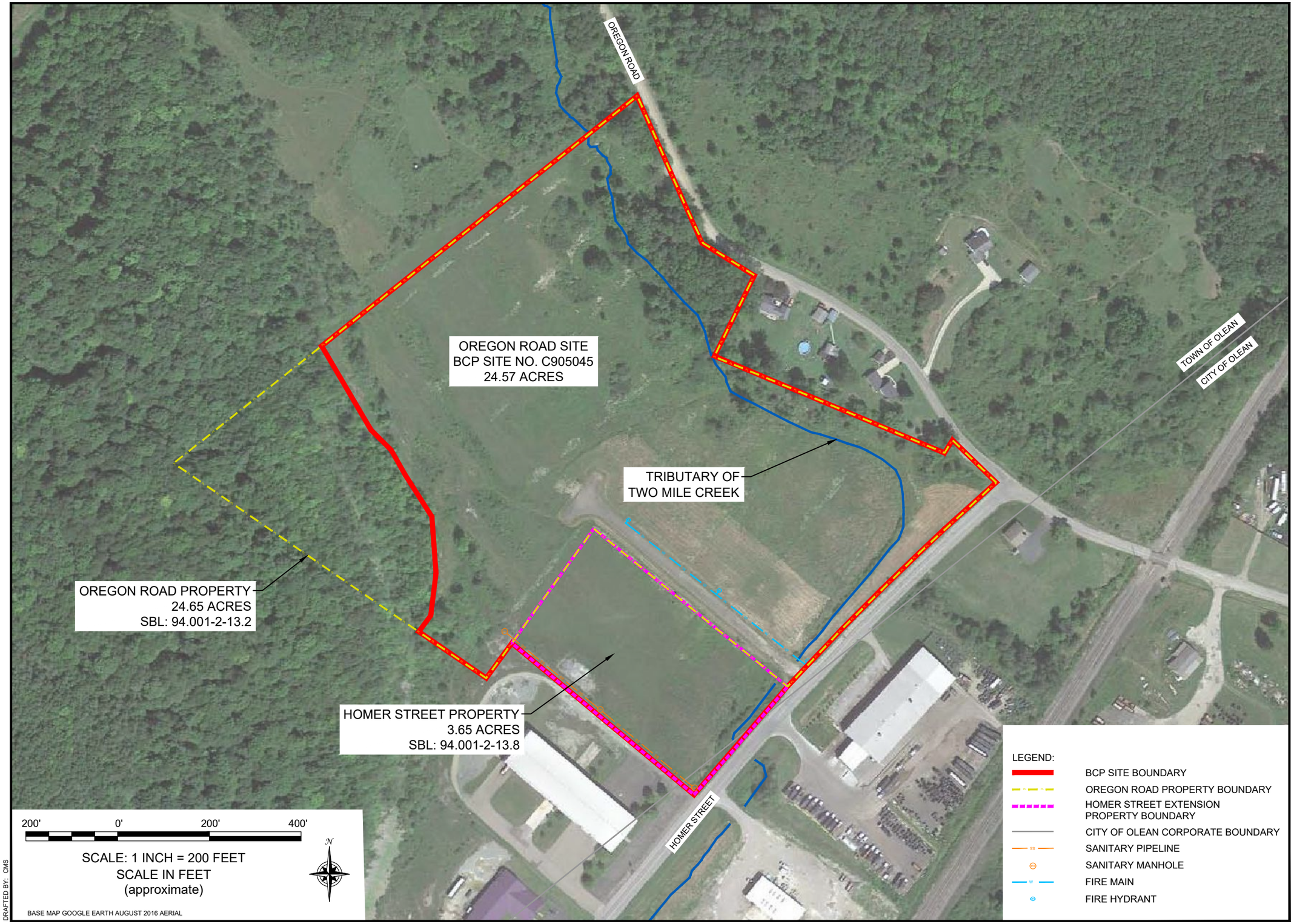
## SITE LOCATION & VICINITY MAP

PERIODIC REVIEW REPORT

OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC




F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2023 PRR 3pt65 Acre Portion\Figure 2- Site Plan (Aerial)_Pre-Remediation.dwg, 4/27/2023 2:19:40 PM

DATE: APRIL 2021
DRAFTED BY: CMS


BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

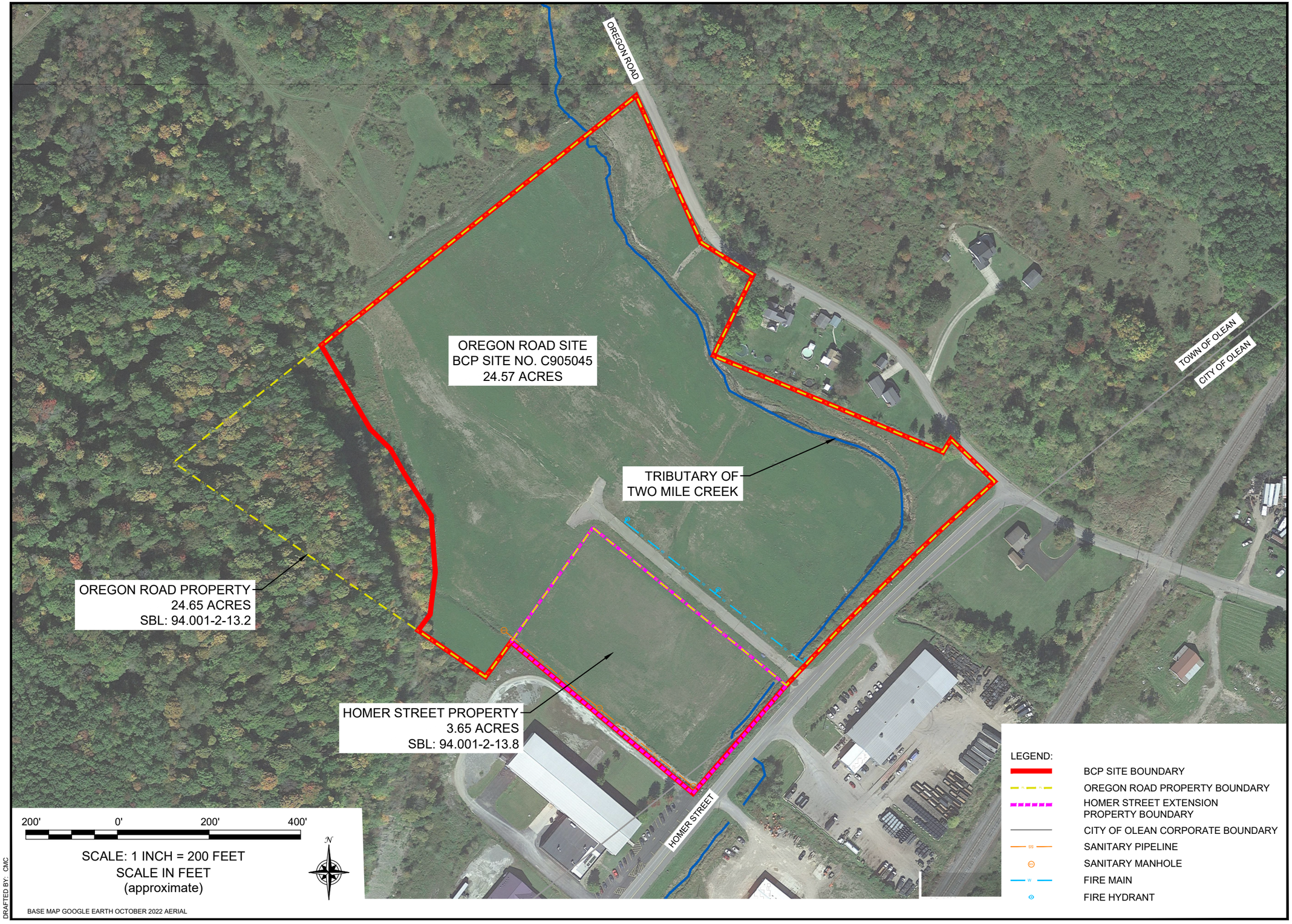

JOB NO.: 0311-022-001

# SITE PLAN (AERIAL)
# PRE REMEDIAL ACTION
PERIODIC REVIEW REPORT

OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

PREPARED FOR
HOMER STREET PROPERTIES, LLC

**FIGURE 2**




BASE MAP GOOGLE EARTH OCTOBER 2022 AERIAL

DATE: APRIL 2023
DRAFTED BY: CMC

F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2023 PRR 3pt65 Acre Portion\Figure 3; Site Plan (Aerial)_Post-Remediation.dwg, 5/2/2023 1:13:02 PM


BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599


JOB NO.: 0311-022-001

# SITE PLAN (AERIAL) POST REMEDIAL ACTION

PERIODIC REVIEW REPORT

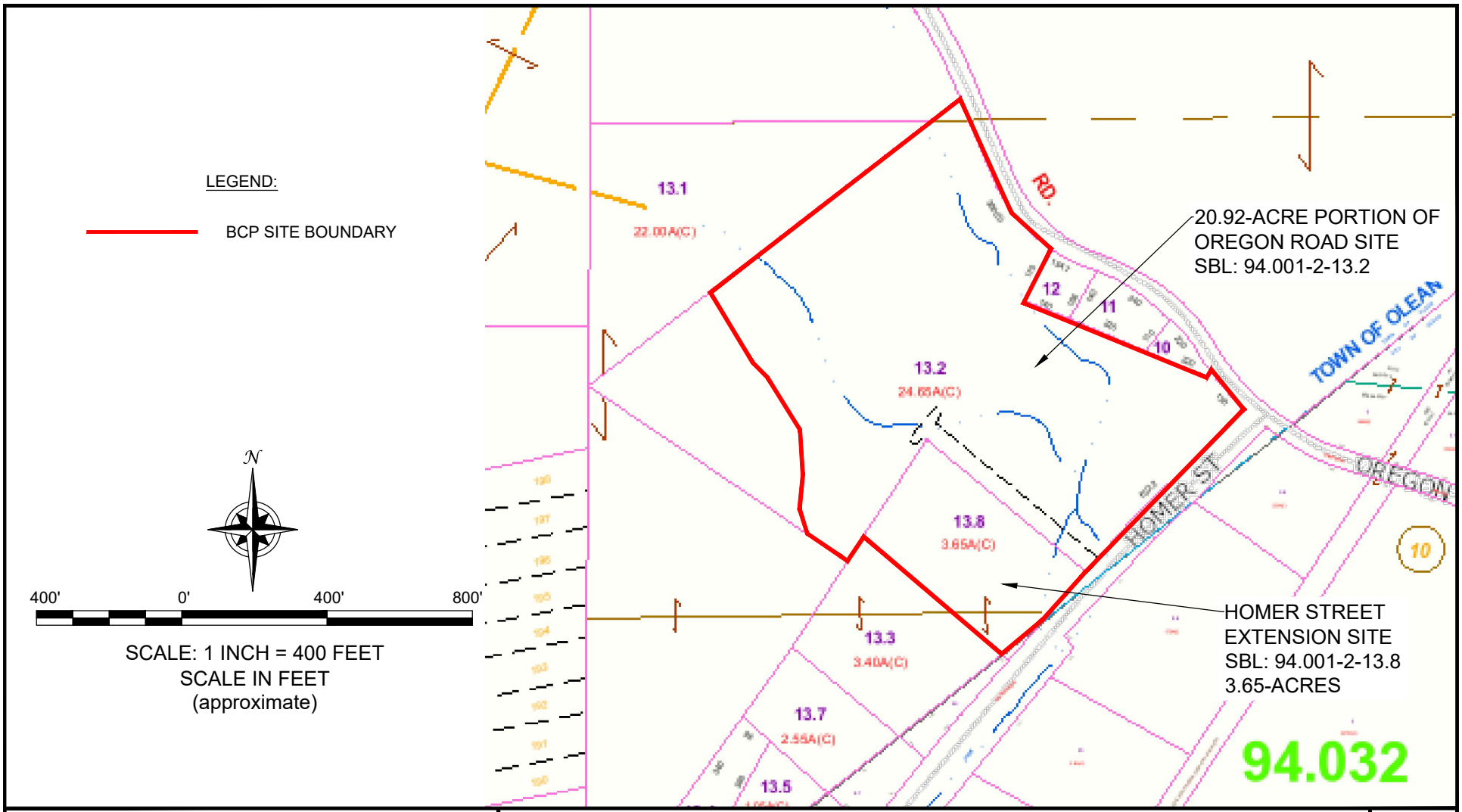
OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

## FIGURE 3

F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2023 PRR 3pt65 Acre Portion\Figure 4; Tax Map.dwg, 4/27/2023 2:37:38 PM




# TAX MAP

PERIODIC REVIEW REPORT

OREGON ROAD SITE

OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

FIGURE 4

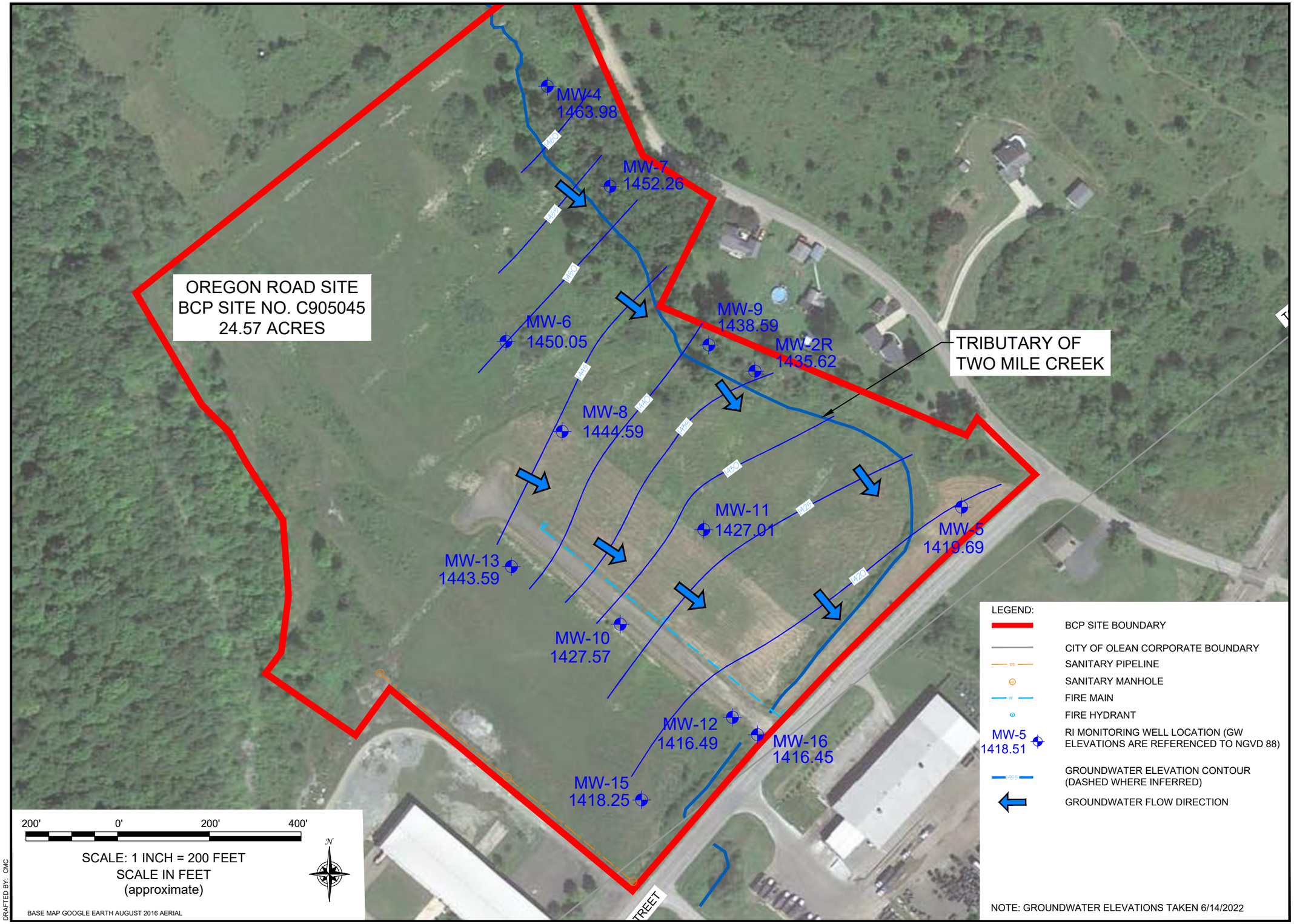

TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635


PROJECT NO.: 0311-022-001

DATE: APRIL 2023

DRAFTED BY: CCB-CMC




F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2023 PRR 3pt65 Acre Portion\Figure 5; Groundwater Isopotential Map_2022-06-14.dwg, 4/27/2023 3:22:30 PM

DATE: APRIL 2023
DRAFTED BY: CMC

BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

JOB NO.: 0311-022-001

# GROUNDWATER ISOPOTENTIAL MAP (JUNE 2022)

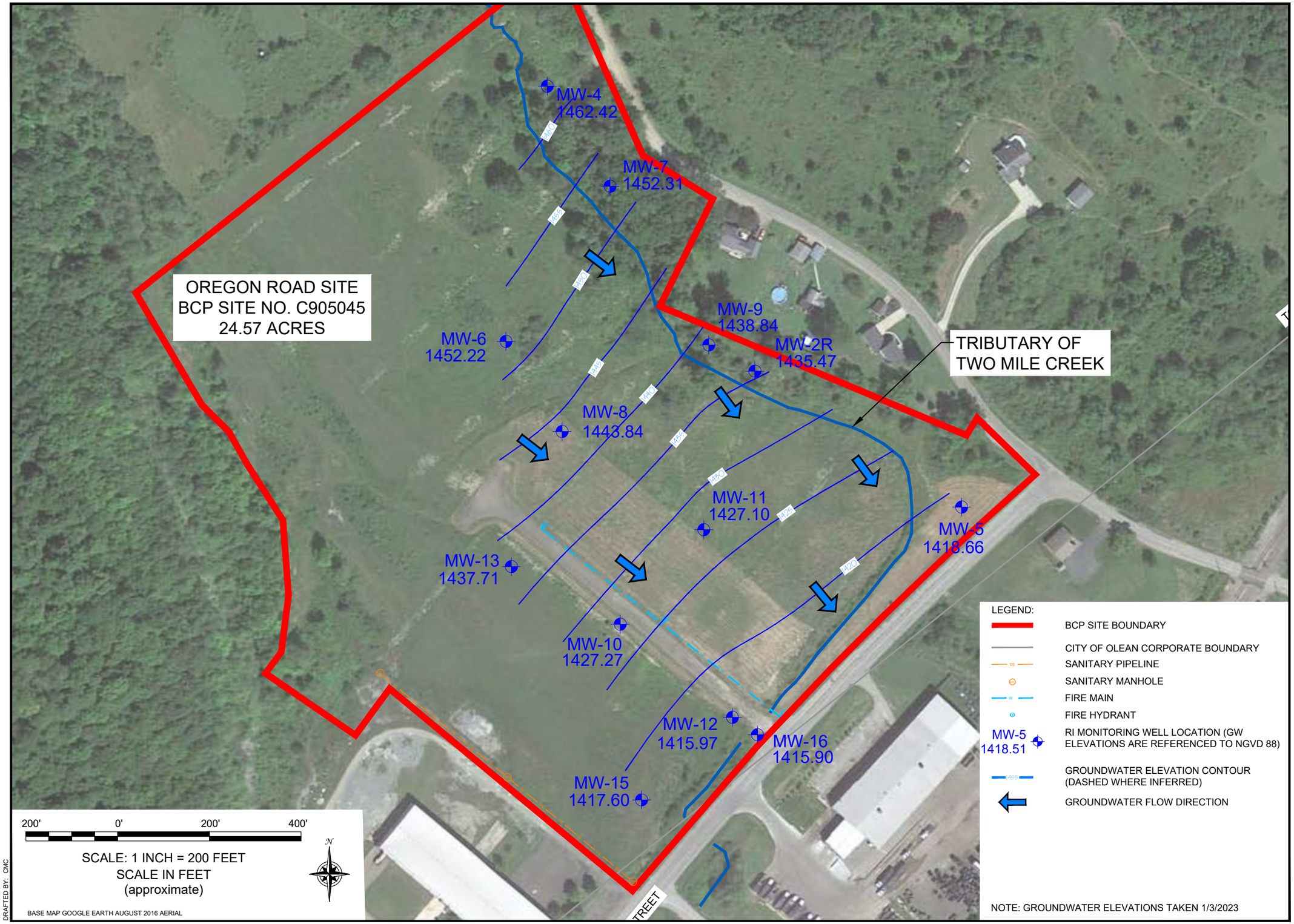
PERIODIC REVIEW REPORT

OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

PREPARED FOR

HOMER STREET PROPERTIES, LLC

## FIGURE 5




F:\CAD\TurnKey\Homer Street Properties, LLC\Oregon Road\2023 PRR 3pt65 Acre Portion\Figure 6; Groundwater Isopotential Map_2023-01-03.dwg, 4/27/2023 3:53:24 PM

DATE: APRIL 2023
DRAFTED BY: CMC

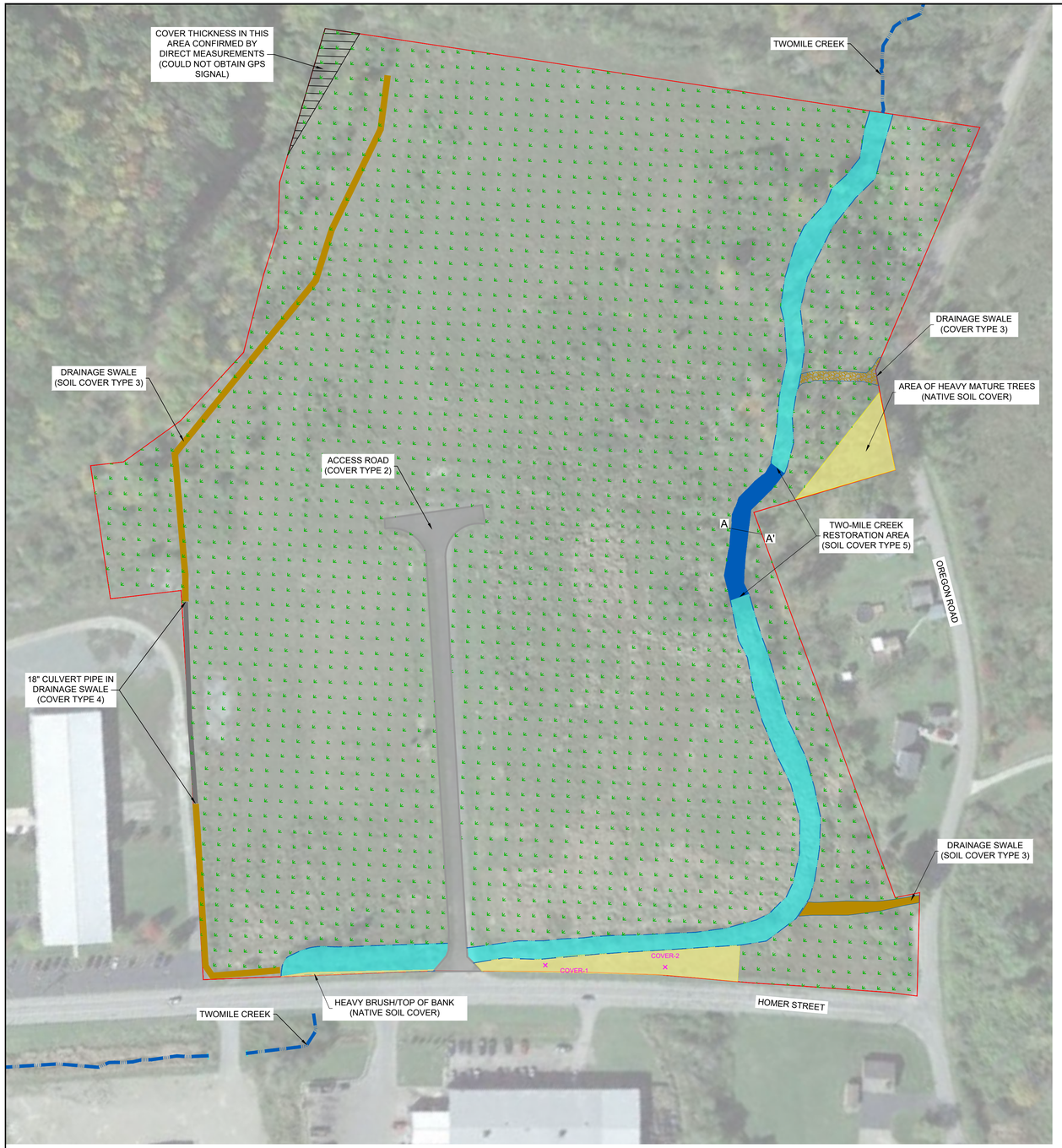
# GROUNDWATER ISOPOTENTIAL MAP (JANUARY 2023)

PERIODIC REVIEW REPORT
OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK
PREPARED FOR
HOMER STREET PROPERTIES, LLC

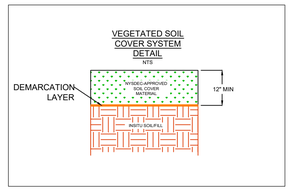
**FIGURE 6**


BENCHMARK IN ASSOCIATION WITH TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218,
(716) 856-0599

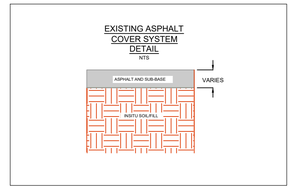

JOB NO.: 0311-022-001




COVER TYPE 1



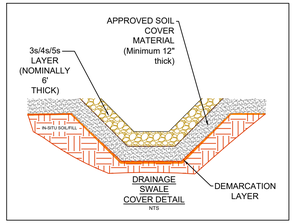

COVER TYPE 2



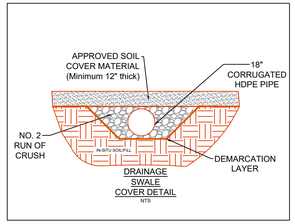

LEGEND:

- BCP SITE BOUNDARY
- DRAINAGE SWALE
- VEGETATED COVER SYSTEM (COVER TYPE 1)
- EXISTING ACCESS ROAD ASPHALT COVER SYSTEM (COVER TYPE 2)
- DRAINAGE SWALE (COVER TYPE 3)
- CULVERT IN DRAINAGE SWALE (COVER TYPE 4)
- TWO-MILE CREEK RESTORATION AREA (COVER TYPE 5)
- EXISTING UPPER 1' OF SOILS MEETING CSCO
- LIMITS OF TWO MILE CREEK ON SITE
- COVER-1 ✕ COVER SOIL SAMPLE LOCATION

COVER TYPE 3

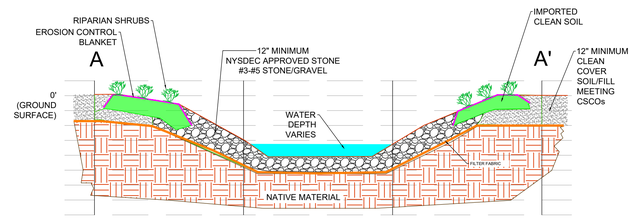



COVER TYPE 4




NOTES:
1. ALL IMPORTED SOIL MEETS UNRESTRICTED SOIL CLEANUP OBJECTIVES (USCOs) AND PROTECTION OF ECOLOGICAL RESOURCES SCOs (PERSCOs).

COVER TYPE 5




NOTE: TRIBUTARY WIDTH VARIES ALONG LENGTH OF RESTORATION AREA


PROJECT NORTH

80' 0' 80' 160'

SCALE: 1 INCH = 80 FEET
SCALE IN FEET
(approximate)

TRUE NORTH

BENCHMARK ENGINEERING & GEOLOGY, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
3556 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218
(716) 856-0599

JOB NO.: 0311-022-001

REVISIONS

| NO. | BY | DATE | REMARKS |
|---|---|---|---|

SEAL

| | |
|---|---|
| DRAWN BY: | RFL-CMC |
| DATE: | MAY 2023 |
| CHECKED BY: | |
| APPROVED BY: | |



**SITE COVER SYSTEM**

PERIODIC REVIEW REPORT
OREGON ROAD SITE
BCP SITE NO. C905045
OLEAN, NEW YORK

PREPARED FOR:
HOMER STREET PROPERTIES, LLC

**FIGURE 7**

# TABLES

BENCHMARK TURNKEY

**TABLE 1**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**

**OREGON ROAD SITE**
**BCP SITE NO. C905045**
**OLEAN, NEW YORK**

| Parameter [1] | NYSDEC Class GA GWQS [2] | Oregon Road Site | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-1 | | MW-2 | MW-2R | | | | | | | MW-3 | | MW-4 | | | MW-5 | | | | MW-6 | | MW-7 | | | |
| | | 11/24/15 | 4/12/19 | 11/24/15 | 7/25/18 | 4/12/19 | 10/6/20 | 2/9/21 | 4/7/21 | 6/14/22 | 1/3/23 | 11/24/15 | 4/11/19 | 2/8/17 | 7/25/18 | 4/12/19 | 2/8/17 | 4/12/19 | 6/14/22 | 1/3/23 | 2/7/17 | 4/11/19 | 2/9/17 | 4/12/19 | 6/14/22 | 1/3/23 |
| ***TCL Volatile Organic Compounds (VOCs) - ug/L*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | **50** | 7.0 | NA | 13 D | ND | NA | ND | ND | 2.0 J | ND | ND | 2.4 J | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | 5.2 | ND |
| Carbon disulfide | **60** | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Cyclohexane | **--** | ND | NA | 1.0 JD | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Methylcyclohexane | **--** | ND | NA | 68 D | 0.49 J | NA | 2.40 J | 2.2 J | 2.4 J | 5.3 J | 0.49 J | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Methylene Chloride | **5** | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Trichloroethene | **5** | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| *VOC-TICs [3]* | **--** | *NA* | *NA* | *NA* | *41* | *NA* | *NA* | *NA* | *NA* | *28 J* | *3.53 J* | *NA* | *NA* | *0.90* | *NA* | *NA* | *2.7* | *NA* | *ND* | *1.41 J* | *0.36 J* | *NA* | *334* | *NA* | *ND* | *ND* |
| ***TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | **--** | ND | NA | 3.5 D | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Acenaphthene | **20** | ND | NA | ND | ND | NA | ND | ND | ND | ND | 0.05 J | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Acenaphthylene | **--** | ND | NA | ND | ND | NA | ND | ND | ND | ND | 0.01 J | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Acetophenone | **--** | ND | NA | ND | ND | NA | ND | ND | ND | 1.6 J | ND | ND | NA | ND | NA | NA | ND | NA | 0.98 J | ND | ND | NA | ND | NA | 1.5 J | ND |
| Anthracene | **50** | ND | NA | 1.2 D | ND | NA | 0.02 J | 0.02 J | ND | ND | 0.03 J | 0.05 J | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | 0.02 J | ND |
| Benzo(a)anthracene | **0.002** | ND | NA | ND | ND | NA | ND | ND | ND | ND | **0.04 J** | **0.43** | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Benzo(a)pyrene | **ND** | ND | NA | ND | ND | NA | ND | ND | ND | ND | 0.03 J | **0.26** | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Benzo(b)fluoranthene | **0.002** | ND | NA | ND | ND | NA | ND | ND | ND | ND | **0.03 J** | **0.39** | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | **0.01 J** | ND |
| Benzo(g,h,i)perylene | **--** | ND | NA | ND | ND | NA | ND | ND | ND | ND | 0.03 J | 0.16 J | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Benzo(k)fluoranthene | **--** | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | 0.01 J | ND |
| Caprolactam | **--** | ND | NA | ND | 20 | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Chrysene | **0.002** | ND | NA | ND | ND | NA | ND | ND | ND | ND | **0.05 J** | **0.45** | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Dibenz(a,h)anthracene | **--** | ND | NA | ND | ND | NA | ND | ND | ND | ND | 0.02 J | 0.09 J | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Di-n-butyl phthalate | **50** | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Fluoranthene | **50** | ND | NA | ND | ND | NA | 0.03 J | ND | ND | ND | ND | 0.24 | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Fluorene | **50** | ND | NA | ND | ND | NA | 0.12 | 0.16 | 0.05 J | 0.13 | 0.11 | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | 0.02 J | ND |
| Hexachlorobenzene | **0.04** | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Ideno(1,2,3-cd)pyrene | **0.002** | ND | NA | ND | ND | NA | ND | ND | ND | ND | **0.02 J** | **0.15 J** | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Naphthalene | **10** | ND | NA | ND | ND | NA | ND | 0.07 J | ND | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Pentachlorophenol | **--** | ND | NA | ND | ND | NA | ND | ND | 0.22 J | ND | ND | ND | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| Phenanthrene | **50** | ND | NA | 3.7 D | ND | NA | 0.06 J | 0.12 | ND | 0.12 | 0.09 J | 0.12 J | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | 0.02 J | ND |
| Pyrene | **50** | ND | NA | ND | ND | NA | 0.02 J | ND | ND | ND | ND | 0.20 | NA | ND | NA | NA | ND | NA | ND | ND | ND | NA | ND | NA | ND | ND |
| *SVOC-TICs [3]* | **--** | *NA* | *NA* | *NA* | *659* | *NA* | *ND* | *ND* | *ND* | *54 J* | *35 J* | *NA* | *NA* | *ND* | *ND* | *NA* | *ND* | *NA* | *8.8 J* | *43 J* | *ND* | *NA* | *8.4* | *NA* | *ND* | *15 J* |
| ***Semi-Volatile Organic Compounds 8270 (SIM) [4] - ug/L*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4 - Dioxane | **0.35** | NA | NA | NA | ND | NA | ND | ND | ND | NA | NA | NA | NA | NA | **2.5** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| ***Perfluorinated Alkyl Acids - ng/L*** | ***NYSDEC November 2022 Guidance [2]*** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1H,1H,2H,2H-Perfluorodecanessulfonic Acid (8:2FTS) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| 1H,1H,2H,2H-Perfluorooctaneslfonic Acid (6:2FTS) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorobutanesulfonic Acid (PFBS) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 1.3 J | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorobutanoic acid (PFBA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 19 | ND | NA | ND | NA | NA | NA | ND | NA | 4.6 J | NA | NA |
| Perfluorosulfonic Acid (PFDS) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorodecanoic Acid (PFDA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorododecanoic Acid (PFDoA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluoroheptanesulfonic Acid (PFHpS) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluoroheptanoic acid (PFHpA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 3.8 | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorohexanesulfonic Acid (PFHxS) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 0.40 JB | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorohexanoic acid (PFHxA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 3.5 | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorononanoic acid (PFNA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorooctane Sulfonamide (PFOSA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| **Perfluorooctanesulfonic Acid (PFOS)** | **10** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 1.4 J | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| **Perfluorooctanoic acid (PFOA)** | **10** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 5.5 B | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluoropentanoic acid (PFPeA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | 6.2 | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluorotetradecanoic acid (PFTeA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Pefluorotridecanoic Acid (PFTriDA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |
| Perfluoroundercanoic Acid (PFUnA) | **--** | NA | ND | NA | ND | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | ND | NA | ND | NA | NA | NA | ND | NA | ND | NA | NA |

**Notes:**
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS); PFOA and PFOS results are compared to NYSDEC November 2022 Guidance for groundwater of 10 ng/L for each compound.
3. Tentatively Identified Compounds (TICs).
4. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.

**Definitions:**
ug/L = micrograms per liter; ng/L = nanograms per liter
NA = Parameter not tested.
ND = Parameter not detected above laboratory detection limit.
"--" = No GWQS or action level available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analytical was detected in the associated blank as well as in the sample.
D = Analyzed at dilution
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.
EMPC = the results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maxiumum Possible Concentration of the analyte in the sample.

= Result exceeds Class GA GWQS
= Per NYSDEC November 2022 guidance, result indicates PFOS/PFOA should be further assessed and considered as potential contaminants of concern in groundwater

BENCHMARK TURNKEY

**TABLE 1**
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**

**OREGON ROAD SITE**
**BCP SITE NO. C905045**
**OLEAN, NEW YORK**

| Parameter [1] | NYSDEC Class GA GWQS [2] | Oregon Road Site | | | | | | | | | | | | | | | | | | | | Homer Street Extension | | | | | | | | Downgradient of Barrier | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-8 | | | | MW-9 | | | | | | | MW-10 | | MW-11 | | MW-12 | | | | | MW-13 | | | | MW-15 | | | | MW-16 | |
| | | 2/9/17 | 4/11/19 | 6/14/22 | 1/3/23 | 2/9/17 | 4/12/19 | 10/6/20 | 2/9/21 | 4/7/21 | 6/14/22 | 1/3/23 | 2/7/17 | 4/11/19 | 2/7/17 | 4/11/19 | 2/7/17 | 7/25/18 | 3/4/19 | 6/14/22 | 1/3/23 | 7/25/18 | 3/4/19 | 6/14/22 | 1/3/23 | 7/25/18 | 4/11/19 | 6/14/22 | 1/3/23 | 6/14/22 | 1/3/23 |
| ***TCL Volatile Organic Compounds (VOCs) - ug/L*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | **50** | ND | NA | 1.9 J | ND | ND | NA | ND | ND | 8.9 | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | 2.1 J | **230 J** | ND | ND |
| Carbon disulfide | **60** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | 1.1 | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Cyclohexane | **--** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | 3.0 | NA | 0.70 J | ND | ND | ND |
| Methylcyclohexane | **--** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | 4.3 | NA | 0.77 J | ND | ND | ND |
| Methylene Chloride | **5** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | 2.1 | NA | ND | ND | ND | ND |
| Trichloroethene | **5** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| *VOC-TICs* [3] | **--** | *6.0* | *NA* | *ND* | *1.2 J* | *50* | *NA* | *NA* | *ND* | *ND* | *ND* | *ND* | *53* | *NA* | *0.38 J* | *NA* | *0.36 J* | *NA* | *NA* | *ND* | ND | *ND* | *NA* | *ND* | *1.38 J* | *ND* | *NA* | *4.1 J* | ND | *ND* | ND |
| ***TCL Semi-Volatile Organic Compounds (SVOCs) - ug/L*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | **--** | ND | NA | ND | ND | ND | NA | ND | ND | ND | 0.05 J | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Acenaphthene | **20** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Acenaphthylene | **--** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Acetophenone | **--** | ND | NA | 1.1 J | ND | ND | NA | ND | ND | ND | 2.1 J | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | 0.87 J | 0.94 J | ND | NA | 1.1 J | ND | ND | ND |
| Anthracene | **50** | ND | NA | ND | 0.02 J | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | 0.03 J | ND | ND | ND |
| Benzo(a)anthracene | **0.002** | ND | NA | ND | **0.04 J** | ND | NA | ND | **0.04 J** | ND | ND | **0.04 J** | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | **0.07 J** | ND | **0.03 J** |
| Benzo(a)pyrene | **ND** | ND | NA | ND | ND | ND | NA | ND | 0.02 J | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Benzo(b)fluoranthene | **0.002** | ND | NA | ND | ND | ND | NA | ND | **0.02 J** | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | **0.01 J** | ND | NA | ND | ND | ND | **0.02 J** |
| Benzo(g,h,i)perylene | **--** | ND | NA | ND | ND | ND | NA | ND | 0.02 J | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Benzo(k)fluoranthene | **--** | ND | NA | ND | ND | ND | NA | ND | 0.02 J | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | 0.01 J |
| Caprolactam | **--** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | 11 J | NA | ND | ND | 59 | NA | ND | ND | ND | ND |
| Chrysene | **0.002** | ND | NA | ND | ND | ND | NA | ND | **0.03 J** | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Dibenz(a,h)anthracene | **--** | ND | NA | ND | ND | ND | NA | ND | 0.000 | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Di-n-butyl phthalate | **50** | ND | NA | ND | ND | ND | NA | ND | 0.02 J | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | 1.8 J | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Fluoranthene | **50** | ND | NA | ND | ND | ND | NA | ND | 0.03 J | ND | 0.03 J | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | 0.35 J | NA | ND | ND | ND | ND |
| Fluorene | **50** | ND | NA | 0.02 J | 0.01 J | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | 0.03 J | ND | ND | ND |
| Hexachlorobenzene | **0.04** | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | 0.03 J | ND | ND | ND |
| Ideno(1,2,3-cd)pyrene | **0.002** | ND | NA | ND | ND | ND | NA | ND | **0.02 J** | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Naphthalene | **10** | ND | NA | ND | ND | ND | NA | ND | 0.05 J | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Pentachlorophenol | **--** | ND | NA | ND | ND | ND | NA | ND | ND | 0.1 J | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Phenanthrene | **50** | ND | NA | ND | ND | ND | NA | ND | 0.06 J | ND | ND | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| Pyrene | **50** | ND | NA | ND | ND | ND | NA | ND | 0.03 J | ND | 0.03 J | ND | ND | NA | ND | NA | ND | NA | NA | ND | ND | ND | NA | ND | ND | ND | NA | ND | ND | ND | ND |
| *SVOC-TICs* [3] | **--** | *7.9* | *NA* | *35 J* | *17 J* | *ND* | *NA* | *ND* | *ND* | *ND* | *41 J* | *6.2 J* | *ND* | *NA* | *ND* | *NA* | *ND* | *NA* | *NA* | *52 J* | *6.6 J* | *3,946* | *NA* | *7.4 J* | *243 J* | *729* | *NA* | *37 J* | *44 J* | *21 J* | *10 J* |
| ***Semi-Volatile Organic Compounds 8270 (SIM)*** [4] ***- ug/L*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4 - Dioxane | **0.35** | NA | NA | NA | NA | NA | NA | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | **2.5** | ND | NA | NA | ND | ND | NA | NA | **2.5** | NA | NA | NA | NA | NA |
| ***Perfluorinated Alkyl Acids - ng/L*** | ***NYSDEC November 2022 Guidance*** [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1H,1H,2H,2H-Perfluorodecanessulfonic Acid (8:2FTS) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | ND | ND | ND | ND | 0.42 J | NA | NA | ND | ND | NA | NA | ND | ND |
| N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | 4.74 | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | 4.65 | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluorobutanesulfonic Acid (PFBS) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | 92 | NA | 5.5 J | NA | 61 | 111 J | 207 | 238 | 670 | 732 J | NA | NA | 3.0 J | 2.5 J | NA | NA | 2.32 J | 3.09 |
| Perfluorobutanoic acid (PFBA) | **--** | NA | 9.4 | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | 14 | NA | ND | NA | 37 | 26.9 | 41.9 | 74 | 200 | 182 | NA | NA | 120 | 25 | NA | NA | 6.51 | 8.99 |
| Perfluorosulfonic Acid (PFDS) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluorodecanoic Acid (PFDA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluorododecanoic Acid (PFDoA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | 0.629 J | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluoroheptanesulfonic Acid (PFHpS) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | 18 | 31.4 | 10.4 | 11.6 | 4.4 J | ND | NA | NA | ND | ND | NA | NA | ND | 1.37 J |
| Perfluoroheptanoic acid (PFHpA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | 22 | NA | ND | NA | 17 | 29.3 | 42.7 | 49.3 | 180 | 119 | NA | NA | 1.8 J | ND | NA | NA | 0.855 J | 1.12 J |
| Perfluorohexanesulfonic Acid (PFHxS) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | 560 | NA | 40 | NA | 520 B | 784 | 757 | 629 | 1,100 B | 847 | NA | NA | 2.4 JB | ND | NA | NA | 15.9 J | 32.6 |
| Perfluorohexanoic acid (PFHxA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | 130 | NA | ND | NA | 96 | 171 | 270 | 393 | 1,900 | 1,520 | NA | NA | ND | ND | NA | NA | 4.63 | 5.84 |
| Perfluorononanoic acid (PFNA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | 0.47 J | 0.729 J | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluorooctane Sulfonamide (PFOSA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | ND | | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| **Perfluorooctanesulfonic Acid (PFOS)** | **10** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | **34** | NA | **12** | NA | **510** | **1,020** | **222** | **239** | 3.5 J | ND | NA | NA | 1.6 J | ND | NA | NA | **21.8** | **35.9** |
| **Perfluorooctanoic acid (PFOA)** | **10** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | **28** | NA | 2.6 J | NA | **25 B** | **48.8** | **42.8** | **50.3** | **100 B** | **45.9** | NA | NA | 2.0 JB | ND | NA | NA | 0.816 EMPC | 1.88 |
| Perfluoropentanoic acid (PFPeA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | 25 | NA | ND | NA | 15 | 35.8 | 70.2 | 108 | 250 | 321 | NA | NA | ND | ND | NA | NA | 2.11 | 3.38 |
| Perfluorotetradecanoic acid (PFTeA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | 1.04 J | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluorotridecanoic Acid (PFTriDA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | ND | 0.671 J | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |
| Perfluoroundercanoic Acid (PFUnA) | **--** | NA | ND | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | 0.25 J | 0.479 J | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | ND | ND |

**Notes:**
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS); PFOA and PFOS results are compared to NYSDEC November 2022 Guidance for groundwater of 10 ng/L for each compound.
3. Tentatively Identified Compounds (TICs).
4. Extraction methodology of Selective Ion Monitoring (SIM) was used for 1,4-dioxane.

**Definitions:**
ug/L = micrograms per liter; ng/L = nanograms per liter
NA = Parameter not tested.
ND = Parameter not detected above laboratory detection limit.
"--" = No GWQS or action level available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analytical was detected in the associated blank as well as in the sample.
D = Analyzed at dilution
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.
EMPC = the results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maxiumum Possible Concentration of the analyte in the sample.

= Result exceeds Class GA GWQS
= Per NYSDEC November 2022 guidance, result indicates PFOS/PFOA should be further assessed and considered as potential contaminants of concern in groundwater

BENCHMARK TURNKEY

**TABLE 2**
**SUMMARY OF GROUNDWATER ELEVATIONS**

**OREGON ROAD SITE**
**BCP SITE NO C905045**
**OLEAN, NEW YORK**

| Location[1] | TOR Elevation[2] (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) | DTW (fbTOR) | Groundwater Elevation (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2/8/17 | | 8/2/18 | | 4/12/19 | | 10/22/20 | | 11/18/20 | | 1/26/21 | | 2/11/21 | | 3/4/21 | | 4/14/21 | | 8/3/21 | | 6/14/22 | | 1/3/23 | |
| MW-2R | 1441.52 | NM | NM | 6.45 | 1435.07 | 6.76 | 1434.76 | 5.76 | 1435.76 | NM | NM | 6.94 | 1434.58 | 6.95 | 1434.57 | 5.95 | 1435.57 | 6.06 | 1435.46 | 6.11 | 1435.41 | 5.90 | 1435.62 | 6.05 | 1435.47 |
| MW-4 | 1469.48 | 6.59 | 1462.89 | 6.70 | 1462.78 | 6.04 | 1463.44 | 9.18 | 1460.30 | 7.61 | 1461.87 | 7.26 | 1462.22 | 7.49 | 1461.99 | 6.52 | 1462.96 | 6.77 | 1462.71 | 5.32 | 1464.16 | 5.50 | 1463.98 | 7.06 | 1462.42 |
| MW-5 | 1432.01 | 11.15 | 1420.86 | 14.10 | 1417.91 | 12.66 | 1419.35 | 16.87 | 1415.14 | 15.91 | 1416.10 | 13.81 | 1418.20 | 14.89 | 1417.12 | 14.12 | 1417.89 | 13.50 | 1418.51 | 12.65 | 1419.36 | 12.32 | 1419.69 | 13.35 | 1418.66 |
| MW-6 | 1456.65 | 9.35 | 1447.30 | 11.10 | 1445.55 | 8.96 | 1447.69 | 12.89 | 1443.76 | 8.41 | 1448.24 | 10.22 | 1446.43 | 11.05 | 1445.60 | 7.31 | 1449.34 | 3.44 | 1453.21 | 5.58 | 1451.07 | 6.60 | 1450.05 | 4.43 | 1452.22 |
| MW-7 | 1462.56 | 10.00 | 1452.56 | 13.40 | 1449.16 | 9.75 | 1452.81 | 11.39 | 1451.17 | NM | NM | 11.51 | 1451.05 | 12.86 | 1449.70 | 11.36 | 1451.20 | 13.53 | 1449.03 | 10.72 | 1451.84 | 10.30 | 1452.26 | 10.25 | 1452.31 |
| MW-8 | 1445.49 | 5.21 | 1440.28 | 5.61 | 1439.88 | 5.31 | 1440.18 | 9.96 | 1435.53 | 4.90 | 1440.59 | 5.41 | 1440.08 | 5.57 | 1439.92 | 5.22 | 1440.27 | 2.39 | 1443.10 | 1.22 | 1444.27 | 0.90 | 1444.59 | 1.65 | 1443.84 |
| MW-9 | 1444.09 | 6.02 | 1438.07 | 6.20 | 1437.89 | 5.80 | 1438.29 | 6.89 | 1437.20 | 5.78 | 1438.31 | 5.82 | 1438.27 | 5.91 | 1438.18 | 5.38 | 1438.71 | 5.61 | 1438.48 | 5.75 | 1438.34 | 5.50 | 1438.59 | 5.25 | 1438.84 |
| MW-10 | 1439.02 | 7.97 | 1431.05 | 8.20 | 1430.82 | 8.10 | 1430.92 | 13.29 | 1425.73 | 12.31 | 1426.71 | 11.97 | 1427.05 | 12.37 | 1426.65 | 12.31 | 1426.71 | 11.85 | 1427.17 | 12.34 | 1426.68 | 11.45 | 1427.57 | 11.75 | 1427.27 |
| MW-11 | 1436.17 | 5.66 | 1430.51 | 6.45 | 1429.72 | 6.03 | 1430.14 | 10.68 | 1425.49 | 10.41 | 1425.76 | NM | NM | NM | NM | 9.72 | 1426.45 | 9.51 | 1426.66 | 9.96 | 1426.21 | 9.16 | 1427.01 | 9.07 | 1427.10 |
| MW-12 | 1431.77 | 13.69 | 1418.08 | 16.55 | 1415.22 | 14.55 | 1417.22 | NM | NM | 18.50 | 1413.27 | 16.63 | 1415.14 | 17.50 | 1414.27 | 16.95 | 1414.82 | 16.15 | 1415.62 | 15.25 | 1416.52 | 15.28 | 1416.49 | 15.80 | 1415.97 |
| MW-13 | 1445.77 | NM | NM | 11.15 | 1434.62 | 4.15 | 1441.62 | 9.75 | 1436.02 | 9.05 | 1436.72 | 7.62 | 1438.15 | 8.20 | 1437.57 | 8.01 | 1437.76 | 6.27 | 1439.50 | 4.00 | 1441.77 | 2.18 | 1443.59 | 8.06 | 1437.71 |
| MW-15 | 1433.21 | NM | NM | 16.15 | 1417.06 | 14.20 | 1419.01 | 17.80 | 1415.41 | 17.99 | 1415.22 | 16.01 | 1417.20 | 17.22 | 1415.99 | 16.58 | 1416.63 | 15.84 | 1417.37 | 15.16 | 1418.05 | 14.96 | 1418.25 | 15.61 | 1417.60 |
| MW-16 | 1427.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11.15 | 1416.50 | 11.20 | 1416.45 | 11.75 | 1415.90 |

**Notes:**

1. Wells MW-2R, MW-13, & MW-15 were installed in July 2018. Well MW-16 was installed July 2021. All other existing wells installed in January and February 2017.
2. Elevations are referenced to NGVD 88.

**Acronyms:**

fbTOR = Feet below top of riser
DTW = Depth to water
NM = Not measured

# APPENDIX A

## INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

**Enclosure 2**
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
**Site Management Periodic Review Report Notice**
**Institutional and Engineering Controls Certification Form**

**Site Details** **Box 1**

**Site No.** **C905045**

**Site Name Oregon Road Site**

Site Address: Oregon Road and Homer Street Extension Zip Code: 14760
City/Town: Olean
County: Cattaraugus
Site Acreage: 24.570

Reporting Period: December 17, 2021 to April 17, 2023

| | YES | NO |
|---|---|---|
| 1. Is the information above correct? | ☑ | ☐ |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | ☐ | ☑ |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | ☐ | ☑ |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | ☐ | ☑ |
| **If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.** | | |
| 5. Is the site currently undergoing development? | ☐ | ☑ |

**Box 2**

| | YES | NO |
|---|---|---|
| 6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial | ☑ | ☐ |
| 7. Are all ICs in place and functioning as designed? | ☑ | ☐ |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

Signature of Owner, Remedial Party or Designated Representative Date

**Box 2A**

| | YES | NO |
|---|---|---|
| 8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid? | ☐ | ☑ |

**If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.**

| | | |
|---|---|---|
| 9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years) | ☑ | ☐ |

**If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.**

**SITE NO. C905045** **Box 3**

**Description of Institutional Controls**

| Parcel | Owner | Institutional Control |
|---|---|---|
| **94.001-2-13.2 (portion of)** | Homer Street Properties, LLC | Ground Water Use Restriction<br>Soil Management Plan<br>Landuse Restriction<br>Monitoring Plan<br>Site Management Plan<br>IC/EC Plan |

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
- require compliance with the Department approved Site Management Plan.

| | | |
|---|---|---|
| **94.001-2-13.8** | Homer Street Properties, LLC | Ground Water Use Restriction<br>Soil Management Plan<br>Landuse Restriction<br>Monitoring Plan<br>Site Management Plan<br>IC/EC Plan |

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
- require compliance with the Department approved Site Management Plan.

**Box 4**

**Description of Engineering Controls**

| Parcel | Engineering Control |
|---|---|
| **94.001-2-13.2 (portion of)** | Groundwater Treatment System<br>Cover System<br>Monitoring Wells |

- A site cover will be required to allow for commercial use of the site in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs), except in areas proximate to Two Mile Creek where cover material must meet the protection of ecological resources SCOs;
- In-Situ Groundwater Treatment Wall consisting of activated carbon (or other proprietary compounds) will be added to the subsurface to capture and prevent the migration of PFAS compounds in groundwater; and
- Monitoring of groundwater using monitoring wells to ensure that the remedy remains protective of human health and the environment.

| | |
|---|---|
| **94.001-2-13.8** | Groundwater Treatment System<br>Cover System<br>Monitoring Wells |

- A site cover will be required to allow for commercial use of the site in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs), except in areas proximate to Two Mile Creek where cover material must meet the protection of ecological resources SCOs;
- In-Situ Groundwater Treatment Wall consisting of activated carbon (or other proprietary compounds) will be added to the subsurface to capture and prevent the migration of PFAS compounds in groundwater; and
- Monitoring of groundwater using monitoring wells to ensure that the remedy remains protective of human health and the environment.

**Box 5**

**Periodic Review Report (PRR) Certification Statements**

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

| YES | NO |
|---|---|
| ☑ | ☐ |

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

| YES | NO |
|---|---|
| ☑ | ☐ |

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

**IC CERTIFICATIONS**
**SITE NO. C905045**

**Box 6**

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Don Benson (print name) at 130 South Union Street, Suite 300, Olean, New York 14760 (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Don Benson — Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5/5/2023 — Date

**EC CERTIFICATIONS**
SITE NO. C905045

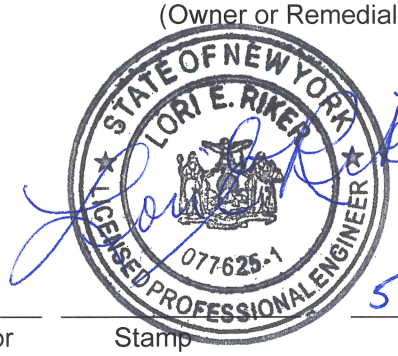
**Box 7**

**Professional Engineer Signature**

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Lori E. Riker, P.E. at Benchmark Civil/Environmental Engineering & Geology, PLLC, 2558 Hamburg Turnpike, Buffalo NY 14218,
print name — print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)




Lori Riker — Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

5/5/23 — Date

# APPENDIX B

## SITE PHOTOGRAPHIC LOG

# SITE PHOTOGRAPHS

**Photo 1:**

**Photo 2:**

**Photo 3:**

**Photo 4:**

**SITE INSPECTION (APRIL 14, 2023)**

Photo 1: View of vegetative growth and Two-Mile Creek (looking west)

Photo 2: View of vegetative growth and Two-Mile Creek (looking east)

Photo 3: View of asphalt access road (looking north)

Photo 4: View of vegetative cover system in southeast portion of the Site (looking northeast)

# SITE PHOTOGRAPHS

**Photo 5:**

**Photo 6:**

**Photo 7:**

**Photo 8:**

**SITE INSPECTION (APRIL 14, 2023)**

Photo 5: View of vegetative cover system in southwest portion of the Site (looking northwest)

Photo 6: View of vegetative cover in central portion of the Site (looking southeast)

Photo 7: View of Two-Mile Creek with rip rap cover (looking south)

Photo 8: View of Two-Mile Creek in northeast corner of the site (looking South)

# SITE PHOTOGRAPHS

**Photo 9:**

**Photo 10:**

**Photo 11:**

**Photo 12:**

**SITE INSPECTION (APRIL 14, 2023)**

Photo 9: View of drainage swale in northeast portion of the Site (looking east)

Photo 10: View of vegetative cover along north boundary of the Site (looking south)

Photo 11: View of vegetative cover in northwest portion of the site (looking southeast)

Photo 12: View of drainage swale along western boundary (looking north)

# APPENDIX C

## GROUNDWATER SAMPLING FIELD FORMS AND ANALYTICAL DATA

# Data Validation Services

**120 Cobble Creek Road P. O. Box 208**
**North Creek, NY 12853**
**Phone (518) 251-4429**
**harry@frontiernet.net**


April 29, 2023

Charlotte Clark
Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the Oregon Road Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha SDG Nos. L2231832 and L2300450

Dear Ms. Clark:

Review has been completed for the data packages generated by Alpha Analytical that pertain to soil samples collected 06/14/22 and 01/03/23 at the Oregon Road site. In each event , nine samples and a field duplicate were processed for TCL volatiles and TCL semivolatiles. Two of the samples, the field duplicate, and a field blank from each event were processed for per- and polyfluoroalkyl substances (PFAS). Tentatively Identified Compounds (TICs) were processed, and a trip blank was run for TCL volatiles with the samples in January. The analytical methodologies are those of the USEPA SW846 and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents and the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate/Isotopic Dilution/Internal Standard Recoveries
* Method and Preparation Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Serial Dilution Evaluation Correlations
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

**In summary**, the results for the samples are usable either as reported or with minor qualification, with the following exception, which are rejected and not usable: 1,4-dioxane results derived from the volatile fraction are not usable

Data completeness, accuracy, precision, representativeness, reproducibility, sensitivity, and comparability are acceptable.

The laboratory modifications to the USEPA method 537 are significant, including acceptance ranges, consistent in many respects to the advances in the available monitoring compounds. Validation actions are based on the laboratory procedures, in consideration that the laboratory undergoes NYS DOH and ELAP certifications. PFAS compounds are identified by their common acronyms in this report. The data package report forms reference both the technical names and the acronyms.

Validation data qualifier definitions and client sample identifications are attached to this text. Also included in this report are the laboratory EDDs with recommended qualifiers/edits applied in red.

Sample identifications are common to both events; therefore, they are distinguished from one another in this report parenthetically by the month of collection.

**Chain-of-Custody/Sample Receipt**

A trip blank was received with the samples collected in June, but was not listed on the custody form and not processed.

**Blind Field Duplicates**

The field duplicate evaluations were performed on MW-12 (June) and MW-16 (January). Naphthalene and 2-methylnaphthalene show correlations outside the validation action guidelines in MW-12, and have been qualified as estimated in that indicated parent sample and its field duplicate.

**TCL Volatile Analyses by EPA 8260C**

The initial extraction of BLIND DUP (June) failed, and the holding time was exceeded for the reextraction, which was successful. Results for that sample have been qualified as estimated, with a low bias

The following detected results are considered contamination and edited to reflect non-detection due to presence in the associated blanks:

- trichloroethene in samples collected June
- acetone in all samples collected in January except MW-15

Holding times are met. Surrogate and internal standard recoveries are compliant.

Results for 1,4-dioxane are rejected and not usable due to poor instrument response inherent in the methodology. Other calibration standards show responses within validation action levels, with the following exceptions, the results for which are qualified as estimated in the indicated associated samples:

- n-butylbenzene (24%D) in MW-15, MW-16, and BLIND DUP (all June)
- bromomethane and 1,1-dichloroethene (22%D to 54%D) in all samples and blanks collected in January

Matrix spikes/duplicate evaluations were also performed on MW-16 (June) and MW-12 (January), and show recoveries and correlations within validation guidelines, with the exception of the following, results for which are qualified as estimated in the indicated parent sample:

| Parent Sample | Analyte | Outlying % Recoveries | Outlying %RPD |
|---|---|---|---|
| MW-12 (January) | bromomethane | 28,38 | 30 |
| | 1,4-dichlorobenzene | 61,67 | |
| | styrene | 60,60 | |
| | 1,2,3-trichlorobenzene | 47,68 | 37 |
| | 1,2,4-trichlorobenzene | 38,63 | 50 |

**TCL Semivolatile Analyses by EPA8270D Full Scan and SIM**

Matrix spikes/duplicate evaluations were performed on MW-16 (June) and MW-12 (January), and show recoveries and correlations within validation guidelines, with the exception of the following, results for which are qualified as estimated in the indicated parent samples:

| Parent Sample | Analyte | Outlying % Recoveries | Outlying %RPD |
|---|---|---|---|
| MW-16 (June) | 3,3'-dichlorobenzidine | 23,26 | |
| | 4-chloroaniline | 27,25 | |
| | 2,4-dimethylphenol | 24,24 | |
| | carbazole | 44,50 | |
| MW-12 (January) | 3,3'-dichlorobenzidine | 17, | 64 |

Due to outlying LCS recovery/correlations (53%; 33%RPD), the results for carbazole in all samples collected in June except the field duplicate have been qualified as estimated, with a low bias.

Surrogate and internal standard recoveries are compliant. Blanks show no contamination of target analytes.

Calibration standards show responses within validation action levels.

The method blanks, especially that in January, show numerous TICs, most of which are also present in the associated samples. They have been flagged as "B", and those, as well as those that are identified as siloxanes (analysis artifacts) have been removed from consideration as sample components.

**PFAS by Modified EPA Method 537**

The detection of PFOA in MW-16 is qualified as being Estimated Maximum Possible Concentration due to an outlying ion ratio.

The results for PFBS and PFHxS in MW-16 are qualified as estimated due to outlying recoveries of associated isotopic dilution standards.

Matrix spikes of MW-16 (June) and MW-12 (January) show recoveries and correlations that are within validation guidelines.

Holding times were met, and calibration standard responses are within validation action guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Attachments: Validation Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

## VALIDATION DATA QUALIFIER DEFINITIONS

| | |
|---|---|
| **U** | The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit. |
| **J** | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample. |
| **J-** | The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low. |
| **J+** | The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high. |
| **UJ** | The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise. |
| **NJ** | The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value. |
| **R** | The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present. |
| **EMPC** | The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample. |

# Sample Identification Summary

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2231832-01 | MW-2R | WATER | OLEAN, NY | 06/14/22 15:45 | 06/15/22 |
| L2231832-02 | MW-5 | WATER | OLEAN, NY | 06/14/22 13:48 | 06/15/22 |
| L2231832-03 | MW-7 | WATER | OLEAN, NY | 06/14/22 17:25 | 06/15/22 |
| L2231832-04 | MW-8 | WATER | OLEAN, NY | 06/14/22 14:30 | 06/15/22 |
| L2231832-05 | MW-9 | WATER | OLEAN, NY | 06/14/22 16:35 | 06/15/22 |
| L2231832-06 | MW-12 | WATER | OLEAN, NY | 06/14/22 10:50 | 06/15/22 |
| L2231832-07 | MW-13 | WATER | OLEAN, NY | 06/14/22 12:35 | 06/15/22 |
| L2231832-08 | MW-15 | WATER | OLEAN, NY | 06/14/22 11:40 | 06/15/22 |
| L2231832-09 | MW-16 | WATER | OLEAN, NY | 06/14/22 09:45 | 06/15/22 |
| L2231832-10 | BLIND DUP | WATER | OLEAN, NY | 06/14/22 08:00 | 06/15/22 |
| L2231832-11 | FIELD BLANK | WATER | OLEAN, NY | 06/14/22 12:00 | 06/15/22 |
| L2231832-12 | TRIP BLANK | WATER | OLEAN, NY | 06/14/22 00:00 | 06/15/22 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2300450-01 | MW-2R | WATER | OLEAN, NY | 01/03/23 12:10 | 01/04/23 |
| L2300450-02 | MW-5 | WATER | OLEAN, NY | 01/03/23 15:00 | 01/04/23 |
| L2300450-03 | MW-7 | WATER | OLEAN, NY | 01/03/23 14:50 | 01/04/23 |
| L2300450-04 | MW-8 | WATER | OLEAN, NY | 01/03/23 13:40 | 01/04/23 |
| L2300450-05 | MW-9 | WATER | OLEAN, NY | 01/03/23 12:50 | 01/04/23 |
| L2300450-06 | MW-12 | WATER | OLEAN, NY | 01/03/23 10:10 | 01/04/23 |
| L2300450-07 | MW-13 | WATER | OLEAN, NY | 01/03/23 12:30 | 01/04/23 |
| L2300450-08 | MW-15 | WATER | OLEAN, NY | 01/03/23 11:10 | 01/04/23 |
| L2300450-09 | MW-16 | WATER | OLEAN, NY | 01/03/23 10:40 | 01/04/23 |
| L2300450-10 | BLIND DUP | WATER | OLEAN, NY | 01/03/23 08:00 | 01/04/23 |
| L2300450-11 | FIELD BLANK | WATER | OLEAN, NY | 01/03/23 08:30 | 01/04/23 |
| L2300450-12 | TRIP BLANK | WATER | OLEAN, NY | 01/03/23 08:45 | 01/04/23 |

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L2231832 |
| Client: | Turnkey Environmental Restoration, LLC<br>2558 Hamburg Turnpike<br>Suite 300<br>Buffalo, NY 14218 |
| ATTN: | Lori Riker |
| Phone: | (716) 856-0599 |
| Project Name: | OREGON ROAD SITE |
| Project Number: | T0311-020-001 |
| Report Date: | 07/07/22 |



Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2231832-01 | MW-2R | WATER | OLEAN, NY | 06/14/22 15:45 | 06/15/22 |
| L2231832-02 | MW-5 | WATER | OLEAN, NY | 06/14/22 13:48 | 06/15/22 |
| L2231832-03 | MW-7 | WATER | OLEAN, NY | 06/14/22 17:25 | 06/15/22 |
| L2231832-04 | MW-8 | WATER | OLEAN, NY | 06/14/22 14:30 | 06/15/22 |
| L2231832-05 | MW-9 | WATER | OLEAN, NY | 06/14/22 16:35 | 06/15/22 |
| L2231832-06 | MW-12 | WATER | OLEAN, NY | 06/14/22 10:50 | 06/15/22 |
| L2231832-07 | MW-13 | WATER | OLEAN, NY | 06/14/22 12:35 | 06/15/22 |
| L2231832-08 | MW-15 | WATER | OLEAN, NY | 06/14/22 11:40 | 06/15/22 |
| L2231832-09 | MW-16 | WATER | OLEAN, NY | 06/14/22 09:45 | 06/15/22 |
| L2231832-10 | BLIND DUP | WATER | OLEAN, NY | 06/14/22 08:00 | 06/15/22 |
| L2231832-11 | FIELD BLANK | WATER | OLEAN, NY | 06/14/22 12:00 | 06/15/22 |
| L2231832-12 | TRIP BLANK | WATER | OLEAN, NY | 06/14/22 00:00 | 06/15/22 |

| | | | |
|---|---|---|---|
| **Project Name:** | OREGON ROAD SITE | **Lab Number:** | L2231832 |
| **Project Number:** | T0311-020-001 | **Report Date:** | 07/07/22 |

## 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, solids and tissues are reported on a dry 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:** | OREGON ROAD SITE | **Lab Number:** | L2231832 |
| **Project Number:** | T0311-020-001 | **Report Date:** | 07/07/22 |

**Case Narrative (continued)**

Report Submission

July 07, 2022: This final report includes the results of all requested analyses.

June 30, 2022: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2231832-12: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was not analyzed.

Volatile Organics

The WG1655806-5 Method Blank, associated with L2231832-08 through -10, has a concentration above the reporting limit for trichloroethene . Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Semivolatile Organics

L2231832-10RE: The sample was extracted with the method required holding time exceeded.

L2231832-10RE: The surrogate recoveries of the original extraction were outside the acceptance criteria for 2-Fluorophenol (0%), Phenol-d6 (0%), Nitrobenzene-d5 (0%), 2-Fluorobiphenyl (0%), 2,4,6-Tribromophenol (0%), and 4-Terphenyl-d14 (0%); however, the criteria were achieved upon re-extraction outside of holding time. Only the results of the re-extraction are reported.

The WG1652468-1 Method Blank, associated with L2231832-01 through -09, has TIC(s) detected. The results are qualified with a "B" for any associated samples that have detections of the same TIC(s).

The WG1656591-1 Method Blank, associated with L2231832-10RE, has TIC(s) detected. The results are qualified with a "B" for any associated samples that have detections of the same TIC(s).

| | | | |
|---|---|---|---|
| **Project Name:** | OREGON ROAD SITE | **Lab Number:** | L2231832 |
| **Project Number:** | T0311-020-001 | **Report Date:** | 07/07/22 |

**Case Narrative (continued)**

Semivolatile Organics by SIM

L2231832-10RE: The sample was extracted with the method required holding time exceeded.

L2231832-10RE: The surrogate recoveries of the original extraction were outside the acceptance criteria for 2-Fluorophenol (0%), Phenol-d6 (0%), Nitrobenzene-d5 (0%), 2-Fluorobiphenyl (0%), 2,4,6-Tribromophenol (0%), and 4-Terphenyl-d14 (0%); however, the criteria were achieved upon re-extraction outside of holding time. Only the results of the re-extraction are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2231832-06, -09, -10, and WG1653606-3/-4: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2231832-06: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2231832-09: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

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: 07/07/22

# ORGANICS

# VOLATILES

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 06/14/22 15:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 09:47
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01 Date Collected: 06/14/22 15:45

Client ID: MW-2R Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 5.3 | J | ug/l | 10 | 0.40 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01 Date Collected: 06/14/22 15:45

Client ID: MW-2R Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Tentatively Identified Compounds | | | | | | |
| Total TIC Compounds | 28.0 | J | ug/l | | | 1 |
| Unknown Cyclohexane | 5.38 | J | ug/l | | | 1 |
| Unknown | 2.36 | J | ug/l | | | 1 |
| Cyclohexane, 1,1-dimethyl- | 5.02 | NJ | ug/l | | | 1 |
| Unknown Cyclohexane | 3.67 | J | ug/l | | | 1 |
| Unknown | 2.25 | J | ug/l | | | 1 |
| Unknown | 2.30 | J | ug/l | | | 1 |
| Unknown Cyclohexane | 1.72 | J | ug/l | | | 1 |
| Cyclohexane, 1,1,3-trimethyl- | 1.81 | NJ | ug/l | | | 1 |
| Unknown | 1.69 | J | ug/l | | | 1 |
| Butane, 2,3-Dimethyl- | 1.75 | NJ | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 93 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/14/22 13:48
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 10:14
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02 Date Collected: 06/14/22 13:48

Client ID: MW-5 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02 Date Collected: 06/14/22 13:48

Client ID: MW-5 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/14/22 17:25
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 10:40
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03 Date Collected: 06/14/22 17:25

Client ID: MW-7 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 5.2 | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03 Date Collected: 06/14/22 17:25

Client ID: MW-7 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 93 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 06/14/22 14:30
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 11:07
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04 Date Collected: 06/14/22 14:30

Client ID: MW-8 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.9 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | |
|---|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04 Date Collected: 06/14/22 14:30

Client ID: MW-8 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 70-130 |
| Dibromofluoromethane | 112 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 06/14/22 16:35
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 11:34
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05 Date Collected: 06/14/22 16:35

Client ID: MW-9 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05 Date Collected: 06/14/22 16:35

Client ID: MW-9 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 92 | | 70-130 |
| Dibromofluoromethane | 105 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/14/22 10:50
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 12:01
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06 Date Collected: 06/14/22 10:50

Client ID: MW-12 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06 Date Collected: 06/14/22 10:50

Client ID: MW-12 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 06/14/22 12:35
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/27/22 12:27
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07 Date Collected: 06/14/22 12:35

Client ID: MW-13 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07 Date Collected: 06/14/22 12:35

Client ID: MW-13 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 108 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 06/14/22 11:40
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/25/22 06:39
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.47 | JB | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08 Date Collected: 06/14/22 11:40

Client ID: MW-15 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.1 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | 0.70 | J | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 0.77 | J | ug/l | 10 | 0.40 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08 Date Collected: 06/14/22 11:40

Client ID: MW-15 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 4.05 | J | ug/l | | | 1 |
| Unknown Cyclohexane | 1.08 | J | ug/l | | | 1 |
| Unknown Cyclohexane | 1.25 | J | ug/l | | | 1 |
| Cyclohexane, 1,1-dimethyl- | 1.72 | NJ | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 93 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/14/22 09:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/25/22 07:05
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.41 | JB | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09 Date Collected: 06/14/22 09:45

Client ID: MW-16 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09 Date Collected: 06/14/22 09:45

Client ID: MW-16 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 94 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 70-130 |
| Dibromofluoromethane | 111 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/14/22 08:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/25/22 07:31
Analyst: MV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.29 | JB | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 Date Collected: 06/14/22 08:00

Client ID: BLIND DUP Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 Date Collected: 06/14/22 08:00

Client ID: BLIND DUP Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 109 | | 70-130 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/25/22 04:03
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG1655806-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | 0.63 | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/25/22 04:03
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG1655806-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/25/22 04:03
Analyst: TMS

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-10 Batch: WG1655806-5 | | | | | |
| Tentatively Identified Compounds | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/27/22 08:27
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1656779-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/27/22 08:27
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1656779-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/27/22 08:27
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1656779-5 | | | | | |
| Tentatively Identified Compounds | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 92 | | 70-130 |
| 4-Bromofluorobenzene | 94 | | 70-130 |
| Dibromofluoromethane | 107 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG1655806-3 WG1655806-4 | | | | | | | | |
| Methylene chloride | 88 | | 90 | | 70-130 | 2 | | 20 |
| 1,1-Dichloroethane | 99 | | 100 | | 70-130 | 1 | | 20 |
| Chloroform | 94 | | 94 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 100 | | 100 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 91 | | 94 | | 70-130 | 3 | | 20 |
| Dibromochloromethane | 92 | | 92 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 93 | | 91 | | 70-130 | 2 | | 20 |
| Tetrachloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 92 | | 92 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 100 | | 100 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 99 | | 100 | | 67-130 | 1 | | 20 |
| Bromodichloromethane | 97 | | 98 | | 67-130 | 1 | | 20 |
| trans-1,3-Dichloropropene | 93 | | 92 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | 94 | | 95 | | 70-130 | 1 | | 20 |
| Bromoform | 96 | | 88 | | 54-136 | 9 | | 20 |
| 1,1,2,2-Tetrachloroethane | 96 | | 97 | | 67-130 | 1 | | 20 |
| Benzene | 92 | | 92 | | 70-130 | 0 | | 20 |
| Toluene | 89 | | 89 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 90 | | 90 | | 70-130 | 0 | | 20 |
| Chloromethane | 97 | | 99 | | 64-130 | 2 | | 20 |
| Bromomethane | 96 | | 94 | | 39-139 | 2 | | 20 |
| Vinyl chloride | 110 | | 100 | | 55-140 | 10 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG1655806-3 WG1655806-4 | | | | | | | | |
| Chloroethane | 120 | | 120 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 92 | | 96 | | 61-145 | 4 | | 20 |
| trans-1,2-Dichloroethene | 91 | | 92 | | 70-130 | 1 | | 20 |
| Trichloroethene | 90 | | 90 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 98 | | 96 | | 70-130 | 2 | | 20 |
| 1,3-Dichlorobenzene | 96 | | 94 | | 70-130 | 2 | | 20 |
| 1,4-Dichlorobenzene | 99 | | 95 | | 70-130 | 4 | | 20 |
| Methyl tert butyl ether | 84 | | 87 | | 63-130 | 4 | | 20 |
| p/m-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| o-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 93 | | 96 | | 70-130 | 3 | | 20 |
| Styrene | 90 | | 95 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 100 | | 110 | | 36-147 | 10 | | 20 |
| Acetone | 100 | | 110 | | 58-148 | 10 | | 20 |
| Carbon disulfide | 89 | | 90 | | 51-130 | 1 | | 20 |
| 2-Butanone | 91 | | 91 | | 63-138 | 0 | | 20 |
| 4-Methyl-2-pentanone | 83 | | 85 | | 59-130 | 2 | | 20 |
| 2-Hexanone | 89 | | 90 | | 57-130 | 1 | | 20 |
| Bromochloromethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,2-Dibromoethane | 91 | | 91 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 76 | | 79 | | 53-136 | 4 | | 20 |
| sec-Butylbenzene | 84 | | 85 | | 70-130 | 1 | | 20 |
| 1,2-Dibromo-3-chloropropane | 87 | | 88 | | 41-144 | 1 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 Batch: WG1655806-3 WG1655806-4 | | | | | | | | |
| Isopropylbenzene | 89 | | 91 | | 70-130 | 2 | | 20 |
| p-Isopropyltoluene | 84 | | 86 | | 70-130 | 2 | | 20 |
| n-Propylbenzene | 88 | | 90 | | 69-130 | 2 | | 20 |
| 1,2,3-Trichlorobenzene | 95 | | 88 | | 70-130 | 8 | | 20 |
| 1,2,4-Trichlorobenzene | 92 | | 88 | | 70-130 | 4 | | 20 |
| 1,3,5-Trimethylbenzene | 87 | | 89 | | 64-130 | 2 | | 20 |
| 1,2,4-Trimethylbenzene | 88 | | 88 | | 70-130 | 0 | | 20 |
| Methyl Acetate | 94 | | 92 | | 70-130 | 2 | | 20 |
| Cyclohexane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 92 | | 98 | | 56-162 | 6 | | 20 |
| Freon-113 | 110 | | 110 | | 70-130 | 0 | | 20 |
| Methyl cyclohexane | 92 | | 94 | | 70-130 | 2 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 107 | | 70-130 |
| Toluene-d8 | 98 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 94 | | 70-130 |
| Dibromofluoromethane | 102 | | 103 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1656779-3 WG1656779-4 | | | | | | | | |
| Methylene chloride | 92 | | 91 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 98 | | 70-130 | 2 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 93 | | 91 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 93 | | 93 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 96 | | 93 | | 70-130 | 3 | | 20 |
| Tetrachloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 94 | | 92 | | 75-130 | 2 | | 20 |
| Trichlorofluoromethane | 120 | | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 96 | | 67-130 | 4 | | 20 |
| trans-1,3-Dichloropropene | 94 | | 95 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | 96 | | 97 | | 70-130 | 1 | | 20 |
| Bromoform | 93 | | 93 | | 54-136 | 0 | | 20 |
| 1,1,2,2-Tetrachloroethane | 96 | | 96 | | 67-130 | 0 | | 20 |
| Benzene | 98 | | 94 | | 70-130 | 4 | | 20 |
| Toluene | 93 | | 95 | | 70-130 | 2 | | 20 |
| Ethylbenzene | 93 | | 92 | | 70-130 | 1 | | 20 |
| Chloromethane | 110 | | 110 | | 64-130 | 0 | | 20 |
| Bromomethane | 95 | | 90 | | 39-139 | 5 | | 20 |
| Vinyl chloride | 110 | | 110 | | 55-140 | 0 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1656779-3 WG1656779-4 | | | | | | | | |
| Chloroethane | 130 | | 120 | | 55-138 | 8 | | 20 |
| 1,1-Dichloroethene | 100 | | 98 | | 61-145 | 2 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 96 | | 70-130 | 4 | | 20 |
| Trichloroethene | 89 | | 83 | | 70-130 | 7 | | 20 |
| 1,2-Dichlorobenzene | 98 | | 98 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 95 | | 96 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 97 | | 99 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 88 | | 85 | | 63-130 | 3 | | 20 |
| p/m-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| o-Xylene | 100 | | 95 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 96 | | 70-130 | 4 | | 20 |
| Styrene | 95 | | 95 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 110 | | 110 | | 36-147 | 0 | | 20 |
| Acetone | 92 | | 89 | | 58-148 | 3 | | 20 |
| Carbon disulfide | 100 | | 94 | | 51-130 | 6 | | 20 |
| 2-Butanone | 91 | | 85 | | 63-138 | 7 | | 20 |
| 4-Methyl-2-pentanone | 82 | | 83 | | 59-130 | 1 | | 20 |
| 2-Hexanone | 88 | | 87 | | 57-130 | 1 | | 20 |
| Bromochloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | 95 | | 92 | | 70-130 | 3 | | 20 |
| n-Butylbenzene | 80 | | 80 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 88 | | 86 | | 70-130 | 2 | | 20 |
| 1,2-Dibromo-3-chloropropane | 90 | | 89 | | 41-144 | 1 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1656779-3 WG1656779-4 | | | | | | | | |
| Isopropylbenzene | 91 | | 92 | | 70-130 | 1 | | 20 |
| p-Isopropyltoluene | 86 | | 87 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 90 | | 91 | | 69-130 | 1 | | 20 |
| 1,2,3-Trichlorobenzene | 89 | | 92 | | 70-130 | 3 | | 20 |
| 1,2,4-Trichlorobenzene | 91 | | 93 | | 70-130 | 2 | | 20 |
| 1,3,5-Trimethylbenzene | 89 | | 90 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 88 | | 90 | | 70-130 | 2 | | 20 |
| Methyl Acetate | 95 | | 97 | | 70-130 | 2 | | 20 |
| Cyclohexane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 100 | | 98 | | 56-162 | 2 | | 20 |
| Freon-113 | 120 | | 110 | | 70-130 | 9 | | 20 |
| Methyl cyclohexane | 100 | | 96 | | 70-130 | 4 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | | 107 | | 70-130 |
| Toluene-d8 | 97 | | 98 | | 70-130 |
| 4-Bromofluorobenzene | 93 | | 93 | | 70-130 |
| Dibromofluoromethane | 105 | | 105 | | 70-130 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG1655806-6 WG1655806-7 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| Methylene chloride | ND | 10 | 9.7 | 97 | | 9.3 | 93 | | 70-130 | 4 | | 20 |
| 1,1-Dichloroethane | ND | 10 | 11 | 110 | | 10 | 100 | | 70-130 | 10 | | 20 |
| Chloroform | ND | 10 | 11 | 110 | | 9.8 | 98 | | 70-130 | 12 | | 20 |
| Carbon tetrachloride | ND | 10 | 12 | 120 | | 11 | 110 | | 63-132 | 9 | | 20 |
| 1,2-Dichloropropane | ND | 10 | 9.9 | 99 | | 9.3 | 93 | | 70-130 | 6 | | 20 |
| Dibromochloromethane | ND | 10 | 9.7 | 97 | | 10 | 100 | | 63-130 | 3 | | 20 |
| 1,1,2-Trichloroethane | ND | 10 | 9.7 | 97 | | 9.9 | 99 | | 70-130 | 2 | | 20 |
| Tetrachloroethene | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Chlorobenzene | ND | 10 | 9.7 | 97 | | 9.8 | 98 | | 75-130 | 1 | | 20 |
| Trichlorofluoromethane | ND | 10 | 12 | 120 | | 12 | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | ND | 10 | 11 | 110 | | 11 | 110 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | ND | 10 | 11 | 110 | | 10 | 100 | | 67-130 | 10 | | 20 |
| trans-1,3-Dichloropropene | ND | 10 | 9.6 | 96 | | 9.5 | 95 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | ND | 10 | 9.6 | 96 | | 9.6 | 96 | | 70-130 | 0 | | 20 |
| Bromoform | ND | 10 | 9.4 | 94 | | 9.5 | 95 | | 54-136 | 1 | | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 10 | 10 | 100 | | 9.9 | 99 | | 67-130 | 1 | | 20 |
| Benzene | ND | 10 | 10 | 100 | | 9.8 | 98 | | 70-130 | 2 | | 20 |
| Toluene | ND | 10 | 10 | 100 | | 9.7 | 97 | | 70-130 | 3 | | 20 |
| Ethylbenzene | ND | 10 | 9.8 | 98 | | 9.7 | 97 | | 70-130 | 1 | | 20 |
| Chloromethane | ND | 10 | 11 | 110 | | 10 | 100 | | 64-130 | 10 | | 20 |
| Bromomethane | ND | 10 | 6.8 | 68 | | 7.6 | 76 | | 39-139 | 11 | | 20 |
| Vinyl chloride | ND | 10 | 12 | 120 | | 11 | 110 | | 55-140 | 9 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG1655806-6 WG1655806-7 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| Chloroethane | ND | 10 | 12 | 120 | | 11 | 110 | | 55-138 | 9 | | 20 |
| 1,1-Dichloroethene | ND | 10 | 11 | 110 | | 10 | 100 | | 61-145 | 10 | | 20 |
| trans-1,2-Dichloroethene | ND | 10 | 11 | 110 | | 9.2 | 92 | | 70-130 | 18 | | 20 |
| Trichloroethene | 0.41JB | 10 | 9.5 | 95 | | 8.7 | 87 | | 70-130 | 9 | | 20 |
| 1,2-Dichlorobenzene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | ND | 10 | 9.8 | 98 | | 9.6 | 96 | | 70-130 | 2 | | 20 |
| 1,4-Dichlorobenzene | ND | 10 | 9.9 | 99 | | 9.8 | 98 | | 70-130 | 1 | | 20 |
| Methyl tert butyl ether | ND | 10 | 9.4 | 94 | | 8.8 | 88 | | 63-130 | 7 | | 20 |
| p/m-Xylene | ND | 20 | 20 | 100 | | 20 | 100 | | 70-130 | 0 | | 20 |
| o-Xylene | ND | 20 | 20 | 100 | | 20 | 100 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | ND | 10 | 11 | 110 | | 9.9 | 99 | | 70-130 | 11 | | 20 |
| Styrene | ND | 20 | 20 | 100 | | 19 | 95 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | ND | 10 | 12 | 120 | | 12 | 120 | | 36-147 | 0 | | 20 |
| Acetone | ND | 10 | 10 | 100 | | 9.3 | 93 | | 58-148 | 7 | | 20 |
| Carbon disulfide | ND | 10 | 10 | 100 | | 9.9 | 99 | | 51-130 | 1 | | 20 |
| 2-Butanone | ND | 10 | 9.6 | 96 | | 9.1 | 91 | | 63-138 | 5 | | 20 |
| 4-Methyl-2-pentanone | ND | 10 | 8.8 | 88 | | 9.1 | 91 | | 59-130 | 3 | | 20 |
| 2-Hexanone | ND | 10 | 9.3 | 93 | | 9.6 | 96 | | 57-130 | 3 | | 20 |
| Bromochloromethane | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | ND | 10 | 9.7 | 97 | | 10 | 100 | | 70-130 | 3 | | 20 |
| n-Butylbenzene | ND | 10 | 8.0 | 80 | | 8.1 | 81 | | 53-136 | 1 | | 20 |
| sec-Butylbenzene | ND | 10 | 9.1 | 91 | | 8.9 | 89 | | 70-130 | 2 | | 20 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 9.2 | 92 | | 9.2 | 92 | | 41-144 | 0 | | 20 |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG1655806-6 WG1655806-7 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| Isopropylbenzene | ND | 10 | 9.6 | 96 | | 9.4 | 94 | | 70-130 | 2 | | 20 |
| p-Isopropyltoluene | ND | 10 | 9.0 | 90 | | 8.8 | 88 | | 70-130 | 2 | | 20 |
| n-Propylbenzene | ND | 10 | 9.4 | 94 | | 9.2 | 92 | | 69-130 | 2 | | 20 |
| 1,2,3-Trichlorobenzene | ND | 10 | 9.2 | 92 | | 9.3 | 93 | | 70-130 | 1 | | 20 |
| 1,2,4-Trichlorobenzene | ND | 10 | 8.9 | 89 | | 9.2 | 92 | | 70-130 | 3 | | 20 |
| 1,3,5-Trimethylbenzene | ND | 10 | 9.3 | 93 | | 9.2 | 92 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | ND | 10 | 9.3 | 93 | | 9.1 | 91 | | 70-130 | 2 | | 20 |
| Methyl Acetate | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Cyclohexane | ND | 10 | 12 | 120 | | 11 | 110 | | 70-130 | 9 | | 20 |
| 1,4-Dioxane | ND | 500 | 500 | 100 | | 500 | 100 | | 56-162 | 0 | | 20 |
| Freon-113 | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Methyl cyclohexane | ND | 10 | 11 | 110 | | 9.6J | 96 | | 70-130 | 14 | | 20 |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | | 113 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 92 | | 70-130 |
| Dibromofluoromethane | 108 | | 104 | | 70-130 |
| Toluene-d8 | 98 | | 98 | | 70-130 |

# SEMIVOLATILES

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 06/14/22 15:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 10:17
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:35

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 1.6 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01 Date Collected: 06/14/22 15:45

Client ID: MW-2R Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE
**Lab Number:** L2231832
**Project Number:** T0311-020-001
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01
Client ID: MW-2R
Sample Location: OLEAN, NY
Date Collected: 06/14/22 15:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 57.6 | J | ug/l | | | 1 |
| Unknown | 26.1 | J | ug/l | | | 1 |
| Unknown | 3.16 | JB | ug/l | | | 1 |
| Unknown | 2.51 | J | ug/l | | | 1 |
| Unknown | 2.36 | J | ug/l | | | 1 |
| Unknown | 2.87 | J | ug/l | | | 1 |
| Unknown | 1.89 | J | ug/l | | | 1 |
| Unknown | 1.49 | J | ug/l | | | 1 |
| Unknown | 1.60 | J | ug/l | | | 1 |
| Unknown | 5.27 | J | ug/l | | | 1 |
| Unknown Benzene | 1.82 | J | ug/l | | | 1 |
| Unknown Naphthalene | 1.71 | J | ug/l | | | 1 |
| Unknown Organic Acid | 2.04 | J | ug/l | | | 1 |
| Unknown Organic Acid | 4.80 | J | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 59 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | 72 | | 23-120 |
| 2-Fluorobiphenyl | 73 | | 15-120 |
| 2,4,6-Tribromophenol | 70 | | 10-120 |
| 4-Terphenyl-d14 | 71 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 06/14/22 15:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 14:43
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:37

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.13 | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | 0.12 | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-01 Date Collected: 06/14/22 15:45

Client ID: MW-2R Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 58 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | 61 | | 23-120 |
| 2-Fluorobiphenyl | 63 | | 15-120 |
| 2,4,6-Tribromophenol | 94 | | 10-120 |
| 4-Terphenyl-d14 | 68 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/14/22 13:48
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 10:40
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 0.98 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 06/14/22 13:48
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 31.8 | J | ug/l | | | 1 |
| Unknown Organic Acid | 1.71 | J | ug/l | | | 1 |
| Unknown | 2.40 | J | ug/l | | | 1 |
| Unknown | 2.73 | J | ug/l | | | 1 |
| Unknown Organic Acid | 1.93 | J | ug/l | | | 1 |
| Unknown Alcohol | 19.6 | JB | ug/l | | | 1 |
| Unknown | 3.45 | JB | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02 Date Collected: 06/14/22 13:48

Client ID: MW-5 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 48 | | 21-120 |
| Phenol-d6 | 40 | | 10-120 |
| Nitrobenzene-d5 | 61 | | 23-120 |
| 2-Fluorobiphenyl | 59 | | 15-120 |
| 2,4,6-Tribromophenol | 57 | | 10-120 |
| 4-Terphenyl-d14 | 58 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 06/14/22 13:48
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 14:59
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-02 Date Collected: 06/14/22 13:48

Client ID: MW-5 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 50 | | 21-120 |
| Phenol-d6 | 40 | | 10-120 |
| Nitrobenzene-d5 | 55 | | 23-120 |
| 2-Fluorobiphenyl | 56 | | 15-120 |
| 2,4,6-Tribromophenol | 78 | | 10-120 |
| 4-Terphenyl-d14 | 56 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/14/22 17:25
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 11:04
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 1.5 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03 Date Collected: 06/14/22 17:25

Client ID: MW-7 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 14.5 | J | ug/l | | | 1 |
| Unknown Alcohol | 14.5 | JB | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 27 | | 21-120 |
| Phenol-d6 | 27 | | 10-120 |
| Nitrobenzene-d5 | 48 | | 23-120 |
| 2-Fluorobiphenyl | 43 | | 15-120 |
| 2,4,6-Tribromophenol | 28 | | 10-120 |
| 4-Terphenyl-d14 | 45 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 06/14/22 17:25
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 15:16
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | 0.02 | J | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-03 Date Collected: 06/14/22 17:25

Client ID: MW-7 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 33 | | 21-120 |
| Phenol-d6 | 29 | | 10-120 |
| Nitrobenzene-d5 | 42 | | 23-120 |
| 2-Fluorobiphenyl | 42 | | 15-120 |
| 2,4,6-Tribromophenol | 40 | | 10-120 |
| 4-Terphenyl-d14 | 45 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 06/14/22 14:30
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 11:28
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 1.1 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04 Date Collected: 06/14/22 14:30

Client ID: MW-8 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 65.4 | J | ug/l | | | 1 |
| Cyclic Octaatomic Sulfur | 1.89 | NJ | ug/l | | | 1 |
| Unknown | 4.91 | JB | ug/l | | | 1 |
| Unknown Alcohol | 23.9 | JB | ug/l | | | 1 |
| Unknown Alkane | 2.36 | J | ug/l | | | 1 |
| Unknown Amide | 4.40 | J | ug/l | | | 1 |
| Unknown Organic Acid | 2.00 | J | ug/l | | | 1 |
| Unknown Organic Acid | 15.3 | J | ug/l | | | 1 |
| Unknown Organic Acid | 10.6 | J | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04 Date Collected: 06/14/22 14:30

Client ID: MW-8 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 54 | | 21-120 |
| Phenol-d6 | 45 | | 10-120 |
| Nitrobenzene-d5 | 62 | | 23-120 |
| 2-Fluorobiphenyl | 64 | | 15-120 |
| 2,4,6-Tribromophenol | 57 | | 10-120 |
| 4-Terphenyl-d14 | 57 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 06/14/22 14:30
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/28/22 11:43
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-04 Date Collected: 06/14/22 14:30

Client ID: MW-8 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 82 | | 21-120 |
| Phenol-d6 | 70 | | 10-120 |
| Nitrobenzene-d5 | 88 | | 23-120 |
| 2-Fluorobiphenyl | 77 | | 15-120 |
| 2,4,6-Tribromophenol | 97 | | 10-120 |
| 4-Terphenyl-d14 | 84 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 06/14/22 16:35
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 12:15
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 2.1 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05 Date Collected: 06/14/22 16:35

Client ID: MW-9 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05 Date Collected: 06/14/22 16:35

Client ID: MW-9 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 68.2 | J | ug/l | | | 1 |
| Unknown | 2.98 | JB | ug/l | | | 1 |
| Unknown | 5.74 | J | ug/l | | | 1 |
| Unknown | 1.56 | J | ug/l | | | 1 |
| Unknown | 2.07 | J | ug/l | | | 1 |
| Unknown Alcohol | 24.1 | JB | ug/l | | | 1 |
| Unknown Alkane | 1.89 | J | ug/l | | | 1 |
| Unknown Alkane | 1.96 | J | ug/l | | | 1 |
| Unknown Alkane | 2.58 | J | ug/l | | | 1 |
| Unknown Alkane | 2.44 | J | ug/l | | | 1 |
| Unknown Alkane | 2.00 | J | ug/l | | | 1 |
| Unknown Alkane | 3.24 | J | ug/l | | | 1 |
| Unknown Alkane | 2.04 | J | ug/l | | | 1 |
| Unknown Organic Acid | 7.05 | J | ug/l | | | 1 |
| Unknown Organic Acid | 4.00 | J | ug/l | | | 1 |
| Unknown Organic Acid | 4.54 | J | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 52 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | 79 | | 23-120 |
| 2-Fluorobiphenyl | 78 | | 15-120 |
| 2,4,6-Tribromophenol | 54 | | 10-120 |
| 4-Terphenyl-d14 | 81 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 06/14/22 16:35
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 16:54
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | 0.03 | J | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | 0.03 | J | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | 0.05 | J | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-05 Date Collected: 06/14/22 16:35

Client ID: MW-9 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 77 | | 21-120 |
| Phenol-d6 | 62 | | 10-120 |
| Nitrobenzene-d5 | 84 | | 23-120 |
| 2-Fluorobiphenyl | 88 | | 15-120 |
| 2,4,6-Tribromophenol | **129** | Q | 10-120 |
| 4-Terphenyl-d14 | 101 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/14/22 10:50
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 12:39
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06 Date Collected: 06/14/22 10:50

Client ID: MW-12 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | |
|---|---|---|---|---|
| Total TIC Compounds | 52.0 | J | ug/l | 1 |
| Unknown | 23.9 | JB | ug/l | 1 |
| Unknown | 2.98 | J | ug/l | 1 |
| Unknown | 2.76 | JB | ug/l | 1 |
| Unknown | 1.71 | J | ug/l | 1 |
| Unknown | 6.29 | J | ug/l | 1 |
| Unknown Alkane | 1.49 | J | ug/l | 1 |
| Unknown Alkane | 1.60 | J | ug/l | 1 |
| Unknown Alkane | 1.78 | J | ug/l | 1 |
| Unknown Organic Acid | 2.76 | J | ug/l | 1 |
| Unknown Organic Acid | 2.29 | J | ug/l | 1 |
| Unknown Organic Acid | 4.47 | J | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06 Date Collected: 06/14/22 10:50

Client ID: MW-12 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 58 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | 72 | | 23-120 |
| 2-Fluorobiphenyl | 68 | | 15-120 |
| 2,4,6-Tribromophenol | 78 | | 10-120 |
| 4-Terphenyl-d14 | 70 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/14/22 10:50
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 17:10
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06 Date Collected: 06/14/22 10:50

Client ID: MW-12 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 64 | | 21-120 |
| Phenol-d6 | 52 | | 10-120 |
| Nitrobenzene-d5 | 67 | | 23-120 |
| 2-Fluorobiphenyl | 67 | | 15-120 |
| 2,4,6-Tribromophenol | 109 | | 10-120 |
| 4-Terphenyl-d14 | 76 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 06/14/22 10:50
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/05/22 21:09
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/21/22 20:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 41.9 | | ng/l | 10.0 | 2.04 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 70.2 | | ng/l | 10.0 | 1.98 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 207 | | ng/l | 10.0 | 1.19 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 270 | | ng/l | 10.0 | 1.64 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 42.7 | | ng/l | 10.0 | 1.13 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 757 | | ng/l | 10.0 | 1.88 | 1 |
| Perfluorooctanoic Acid (PFOA) | 42.8 | | ng/l | 10.0 | 1.18 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 10.0 | 6.66 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 10.4 | | ng/l | 10.0 | 3.44 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 10.0 | 1.56 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 222 | | ng/l | 10.0 | 2.52 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 10.0 | 1.52 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 10.0 | 6.06 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 10.0 | 3.24 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 10.0 | 1.30 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 10.0 | 4.90 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 10.0 | 2.90 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 10.0 | 4.02 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 10.0 | 1.86 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 10.0 | 1.64 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 10.0 | 1.24 | 1 |
| PFOA/PFOS, Total | 265 | | ng/l | 10.0 | 1.18 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-06 Date Collected: 06/14/22 10:50

Client ID: MW-12 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 92 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 94 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 88 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 82 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 85 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 84 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 95 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 90 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 103 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 107 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 100 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 76 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 45 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 76 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 25 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 46 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 66 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 70 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 06/14/22 12:35
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/24/22 13:02
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 0.87 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07 Date Collected: 06/14/22 12:35

Client ID: MW-13 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 37.0 | J | ug/l | | | 1 |
| Unknown | 3.64 | JB | ug/l | | | 1 |
| Unknown | 2.36 | J | ug/l | | | 1 |
| Unknown | 2.84 | J | ug/l | | | 1 |
| Unknown Alcohol | 26.0 | JB | ug/l | | | 1 |
| Unknown Alkane | 2.18 | J | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 57 | | 21-120 |
| Phenol-d6 | 53 | | 10-120 |
| Nitrobenzene-d5 | 81 | | 23-120 |
| 2-Fluorobiphenyl | 84 | | 15-120 |
| 2,4,6-Tribromophenol | 69 | | 10-120 |
| 4-Terphenyl-d14 | 89 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 06/14/22 12:35
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 17:27
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-07 Date Collected: 06/14/22 12:35

Client ID: MW-13 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 68 | | 21-120 |
| Phenol-d6 | 55 | | 10-120 |
| Nitrobenzene-d5 | 75 | | 23-120 |
| 2-Fluorobiphenyl | 75 | | 15-120 |
| 2,4,6-Tribromophenol | 119 | | 10-120 |
| 4-Terphenyl-d14 | 95 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 06/14/22 11:40
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 00:42
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 1.1 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08 Date Collected: 06/14/22 11:40

Client ID: MW-15 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 64.2 | J | ug/l | | | 1 |
| Unknown | 22.5 | JB | ug/l | | | 1 |
| Unknown | 12.6 | J | ug/l | | | 1 |
| Unknown | 4.36 | JB | ug/l | | | 1 |
| Unknown | 1.64 | J | ug/l | | | 1 |
| Unknown | 1.60 | J | ug/l | | | 1 |
| Unknown Organic Acid | 10.7 | J | ug/l | | | 1 |
| Unknown Organic Acid | 10.8 | J | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08 Date Collected: 06/14/22 11:40

Client ID: MW-15 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 61 | | 21-120 |
| Phenol-d6 | 48 | | 10-120 |
| Nitrobenzene-d5 | 79 | | 23-120 |
| 2-Fluorobiphenyl | 75 | | 15-120 |
| 2,4,6-Tribromophenol | 84 | | 10-120 |
| 4-Terphenyl-d14 | 77 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 06/14/22 11:40
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/28/22 11:59
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | 0.03 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.03 | J | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | 0.03 | J | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-08 Date Collected: 06/14/22 11:40

Client ID: MW-15 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 86 | | 21-120 |
| Phenol-d6 | 71 | | 10-120 |
| Nitrobenzene-d5 | 104 | | 23-120 |
| 2-Fluorobiphenyl | 90 | | 15-120 |
| 2,4,6-Tribromophenol | 115 | | 10-120 |
| 4-Terphenyl-d14 | 102 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/14/22 09:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/26/22 23:04
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:48

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09 Date Collected: 06/14/22 09:45

Client ID: MW-16 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 20.5 | J | ug/l | | | 1 |
| Unknown | 2.73 | JB | ug/l | | | 1 |
| Unknown | 17.8 | JB | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 42 | | 21-120 |
| Phenol-d6 | 34 | | 10-120 |
| Nitrobenzene-d5 | 56 | | 23-120 |
| 2-Fluorobiphenyl | 53 | | 15-120 |
| 2,4,6-Tribromophenol | 39 | | 10-120 |
| 4-Terphenyl-d14 | 49 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/14/22 09:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/19/22 15:32
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/19/22 00:59

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09 Date Collected: 06/14/22 09:45

Client ID: MW-16 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 46 | | 21-120 |
| Phenol-d6 | 36 | | 10-120 |
| Nitrobenzene-d5 | 49 | | 23-120 |
| 2-Fluorobiphenyl | 48 | | 15-120 |
| 2,4,6-Tribromophenol | 68 | | 10-120 |
| 4-Terphenyl-d14 | 51 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 06/14/22 09:45
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/01/22 22:58
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 06/21/22 20:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 6.51 | | ng/l | 1.77 | 0.362 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 2.11 | | ng/l | 1.77 | 0.351 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 2.32 | | ng/l | 1.77 | 0.211 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 4.63 | | ng/l | 1.77 | 0.291 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 0.855 | J | ng/l | 1.77 | 0.200 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 15.9 | | ng/l | 1.77 | 0.333 | 1 |
| Perfluorooctanoic Acid (PFOA) | 0.816 | JF | ng/l | 1.77 | 0.209 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.77 | 1.18 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.77 | 0.610 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.77 | 0.277 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 21.8 | | ng/l | 1.77 | 0.447 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.77 | 0.270 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.77 | 1.07 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.77 | 0.575 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.77 | 0.230 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.77 | 0.869 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.77 | 0.514 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.77 | 0.713 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.77 | 0.330 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.77 | 0.290 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.77 | 0.220 | 1 |
| PFOA/PFOS, Total | 22.6 | J | ng/l | 1.77 | 0.209 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-09 Date Collected: 06/14/22 09:45

Client ID: MW-16 Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 108 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 127 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | **134** | Q | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 103 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 112 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | **136** | Q | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 123 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | **202** | Q | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 116 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 131 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 111 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 155 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 84 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 112 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 16 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 94 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 100 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 85 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/14/22 08:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/05/22 21:26
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/21/22 20:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 40.0 | | ng/l | 1.77 | 0.361 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 66.7 | | ng/l | 1.77 | 0.350 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 191 | | ng/l | 1.77 | 0.211 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 252 | | ng/l | 1.77 | 0.290 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 39.0 | | ng/l | 1.77 | 0.199 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 647 | | ng/l | 1.77 | 0.333 | 1 |
| Perfluorooctanoic Acid (PFOA) | 39.8 | | ng/l | 1.77 | 0.209 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.77 | 1.18 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 10.4 | | ng/l | 1.77 | 0.609 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.77 | 0.276 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 199 | | ng/l | 1.77 | 0.446 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.77 | 0.269 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.77 | 1.07 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.77 | 0.574 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.77 | 0.230 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.77 | 0.868 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.77 | 0.513 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.77 | 0.712 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.77 | 0.329 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.77 | 0.290 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.77 | 0.220 | 1 |
| PFOA/PFOS, Total | 239 | | ng/l | 1.77 | 0.209 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 Date Collected: 06/14/22 08:00

Client ID: BLIND DUP Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 99 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 78 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 86 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 69 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 81 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 82 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 102 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 146 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 115 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 111 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 99 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 126 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 51 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 82 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 32 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 53 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 66 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 70 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 RE
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/14/22 08:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/29/22 12:38
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:15

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | 2.7 | J | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | 1.9 | J | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 RE
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/14/22 08:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 RE Date Collected: 06/14/22 08:00
Client ID: BLIND DUP Date Received: 06/15/22
Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 440 | J | ug/l | | | 1 |
| Unknown | 8.22 | J | ug/l | | | 1 |
| Unknown | 7.56 | J | ug/l | | | 1 |
| Unknown | 8.44 | J | ug/l | | | 1 |
| Unknown | 53.1 | J | ug/l | | | 1 |
| Unknown | 11.0 | J | ug/l | | | 1 |
| Unknown Alkane | 11.2 | J | ug/l | | | 1 |
| Unknown Benzene | 38.5 | J | ug/l | | | 1 |
| Unknown Benzene | 157 | J | ug/l | | | 1 |
| Unknown Benzene | 40.1 | J | ug/l | | | 1 |
| Unknown Benzene | 14.2 | J | ug/l | | | 1 |
| Unknown Benzene | 25.8 | J | ug/l | | | 1 |
| Unknown Benzene | 8.29 | J | ug/l | | | 1 |
| Unknown Organic Acid | 17.6 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 23.2 | J | ug/l | | | 1 |
| Unknown Organic Acid | 16.2 | J | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 62 | | 21-120 |
| Phenol-d6 | 51 | | 10-120 |
| Nitrobenzene-d5 | 71 | | 23-120 |
| 2-Fluorobiphenyl | 71 | | 15-120 |
| 2,4,6-Tribromophenol | 96 | | 10-120 |
| 4-Terphenyl-d14 | 53 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 RE
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/14/22 08:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/29/22 14:50
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:16

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | 2.8 | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.03 | J | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | 0.04 | J | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | 4.2 | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-10 RE
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 06/14/22 08:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 48 | | 21-120 |
| Phenol-d6 | 42 | | 10-120 |
| Nitrobenzene-d5 | 63 | | 23-120 |
| 2-Fluorobiphenyl | 53 | | 15-120 |
| 2,4,6-Tribromophenol | 78 | | 10-120 |
| 4-Terphenyl-d14 | 43 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-11
Client ID: FIELD BLANK
Sample Location: OLEAN, NY

Date Collected: 06/14/22 12:00
Date Received: 06/15/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/05/22 21:42
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/21/22 20:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 1.91 | 0.390 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 1.91 | 0.379 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.91 | 0.228 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.91 | 0.314 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.91 | 0.216 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.91 | 0.360 | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.91 | 0.226 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.91 | 1.27 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.91 | 0.658 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.91 | 0.298 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.91 | 0.482 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.91 | 0.291 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.91 | 1.16 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.91 | 0.620 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.91 | 0.249 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.91 | 0.938 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.91 | 0.555 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.91 | 0.769 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.91 | 0.356 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.91 | 0.313 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.91 | 0.237 | 1 |
| PFOA/PFOS, Total | ND | | ng/l | 1.91 | 0.226 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2231832

**Project Number:** T0311-020-001 **Report Date:** 07/07/22

## SAMPLE RESULTS

Lab ID: L2231832-11 Date Collected: 06/14/22 12:00

Client ID: FIELD BLANK Date Received: 06/15/22

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 102 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 118 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 102 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 96 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 95 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 95 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 105 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 62 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 119 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 113 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 105 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 85 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 53 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 88 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 48 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 57 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 76 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 81 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/23/22 13:30
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:35

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1652468-1 | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/23/22 13:30
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:35

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1652468-1 | | | | | |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 |
| Phenol | ND | | ug/l | 5.0 | 0.57 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 |
| Atrazine | ND | | ug/l | 10 | 0.76 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 |
| Caprolactam | ND | | ug/l | 10 | 3.3 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 |

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| Total TIC Compounds | 26.1 | J | ug/l |
| Unknown Alcohol | 3.02 | J | ug/l |
| Unknown Oxime | 2.51 | J | ug/l |
| Unknown | 20.6 | J | ug/l |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/23/22 13:30
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:35

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1652468-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 55 | | 21-120 |
| Phenol-d6 | 45 | | 10-120 |
| Nitrobenzene-d5 | 61 | | 23-120 |
| 2-Fluorobiphenyl | 63 | | 15-120 |
| 2,4,6-Tribromophenol | 66 | | 10-120 |
| 4-Terphenyl-d14 | 59 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/28/22 09:32
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:37

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1652469-1 | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/28/22 09:32
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/18/22 18:37

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1652469-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 53 | | 21-120 |
| Phenol-d6 | 43 | | 10-120 |
| Nitrobenzene-d5 | 55 | | 23-120 |
| 2-Fluorobiphenyl | 55 | | 15-120 |
| 2,4,6-Tribromophenol | 75 | | 10-120 |
| 4-Terphenyl-d14 | 52 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/01/22 21:50
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 06/21/22 20:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06,09-11 Batch: WG1653606-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.408 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.396 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.238 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.328 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.225 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.376 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.236 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 1.33 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.688 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.312 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.504 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.304 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 1.21 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | 0.648 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.260 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 2.00 | 0.980 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 2.00 | 0.580 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | 0.804 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.372 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | 0.327 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | 0.248 |
| PFOA/PFOS, Total | ND | | ng/l | 2.00 | 0.236 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 07/01/22 21:50
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 06/21/22 20:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06,09-11 Batch: WG1653606-1 | | | | | |

| Surrogate (Extracted Internal Standard) | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 95 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 112 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 98 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 101 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 98 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 100 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 96 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 68 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 87 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 83 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 94 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 76 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 74 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 85 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 25 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 73 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 82 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 81 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/29/22 12:40
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:16

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10 Batch: WG1656590-1 | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 |
| Phenanthrene | 0.05 | J | ug/l | 0.10 | 0.02 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 |
| 2-Methylnaphthalene | 0.03 | J | ug/l | 0.10 | 0.02 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/29/22 12:40
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:16

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10 Batch: WG1656590-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 84 | | 21-120 |
| Phenol-d6 | 72 | | 10-120 |
| Nitrobenzene-d5 | 112 | | 23-120 |
| 2-Fluorobiphenyl | 96 | | 15-120 |
| 2,4,6-Tribromophenol | **129** | Q | 10-120 |
| 4-Terphenyl-d14 | 119 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/29/22 12:16
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:15

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1656591-1 | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/29/22 12:16
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:15

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1656591-1 | | | | | |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 |
| Phenol | ND | | ug/l | 5.0 | 0.57 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 |
| Atrazine | ND | | ug/l | 10 | 0.76 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 |
| Caprolactam | ND | | ug/l | 10 | 3.3 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 |

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| Total TIC Compounds | 4.44 | J | ug/l |
| Unknown | 2.44 | J | ug/l |
| Unknown Organic Acid | 2.00 | J | ug/l |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/29/22 12:16
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/28/22 23:15

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1656591-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 81 | | 21-120 |
| Phenol-d6 | 61 | | 10-120 |
| Nitrobenzene-d5 | 88 | | 23-120 |
| 2-Fluorobiphenyl | 95 | | 15-120 |
| 2,4,6-Tribromophenol | 119 | | 10-120 |
| 4-Terphenyl-d14 | 100 | | 41-149 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1652468-2 WG1652468-3 | | | | | | | | |
| Bis(2-chloroethyl)ether | 68 | | 52 | | 40-140 | 27 | | 30 |
| 3,3'-Dichlorobenzidine | 55 | | 53 | | 40-140 | 4 | | 30 |
| 2,4-Dinitrotoluene | 79 | | 62 | | 48-143 | 24 | | 30 |
| 2,6-Dinitrotoluene | 83 | | 61 | | 40-140 | **31** | Q | 30 |
| 4-Chlorophenyl phenyl ether | 70 | | 51 | | 40-140 | **31** | Q | 30 |
| 4-Bromophenyl phenyl ether | 75 | | 55 | | 40-140 | **31** | Q | 30 |
| Bis(2-chloroisopropyl)ether | 68 | | 52 | | 40-140 | 27 | | 30 |
| Bis(2-chloroethoxy)methane | 73 | | 54 | | 40-140 | 30 | | 30 |
| Hexachlorocyclopentadiene | 55 | | 43 | | 40-140 | 24 | | 30 |
| Isophorone | 70 | | 52 | | 40-140 | 30 | | 30 |
| Nitrobenzene | 78 | | 59 | | 40-140 | 28 | | 30 |
| NDPA/DPA | 68 | | 54 | | 40-140 | 23 | | 30 |
| n-Nitrosodi-n-propylamine | 73 | | 55 | | 29-132 | 28 | | 30 |
| Bis(2-ethylhexyl)phthalate | 84 | | 70 | | 40-140 | 18 | | 30 |
| Butyl benzyl phthalate | 88 | | 69 | | 40-140 | 24 | | 30 |
| Di-n-butylphthalate | 73 | | 51 | | 40-140 | **35** | Q | 30 |
| Di-n-octylphthalate | 86 | | 76 | | 40-140 | 12 | | 30 |
| Diethyl phthalate | 75 | | 54 | | 40-140 | **33** | Q | 30 |
| Dimethyl phthalate | 76 | | 56 | | 40-140 | 30 | | 30 |
| Biphenyl | 83 | | 62 | | 40-140 | 29 | | 30 |
| 4-Chloroaniline | 57 | | 45 | | 40-140 | 24 | | 30 |
| 2-Nitroaniline | 86 | | 65 | | 52-143 | 28 | | 30 |
| 3-Nitroaniline | 74 | | 58 | | 25-145 | 24 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1652468-2 WG1652468-3 | | | | | | | | |
| 4-Nitroaniline | 80 | | 58 | | 51-143 | **32** | Q | 30 |
| Dibenzofuran | 70 | | 51 | | 40-140 | **31** | Q | 30 |
| 1,2,4,5-Tetrachlorobenzene | 82 | | 62 | | 2-134 | 28 | | 30 |
| Acetophenone | 81 | | 61 | | 39-129 | 28 | | 30 |
| 2,4,6-Trichlorophenol | 81 | | 61 | | 30-130 | 28 | | 30 |
| p-Chloro-m-cresol | 83 | | 61 | | 23-97 | **31** | Q | 30 |
| 2-Chlorophenol | 76 | | 58 | | 27-123 | 27 | | 30 |
| 2,4-Dichlorophenol | 82 | | 61 | | 30-130 | 29 | | 30 |
| 2,4-Dimethylphenol | 30 | | **27** | Q | 30-130 | 11 | | 30 |
| 2-Nitrophenol | 94 | | 66 | | 30-130 | **35** | Q | 30 |
| 4-Nitrophenol | **83** | Q | 58 | | 10-80 | **35** | Q | 30 |
| 2,4-Dinitrophenol | 86 | | 65 | | 20-130 | 28 | | 30 |
| 4,6-Dinitro-o-cresol | 83 | | 55 | | 20-164 | **41** | Q | 30 |
| Phenol | 54 | | 42 | | 12-110 | 25 | | 30 |
| 2-Methylphenol | 65 | | 50 | | 30-130 | 26 | | 30 |
| 3-Methylphenol/4-Methylphenol | 73 | | 53 | | 30-130 | **32** | Q | 30 |
| 2,4,5-Trichlorophenol | 89 | | 65 | | 30-130 | **31** | Q | 30 |
| Carbazole | 74 | | **53** | Q | 55-144 | **33** | Q | 30 |
| Atrazine | 106 | | 75 | | 40-140 | **34** | Q | 30 |
| Benzaldehyde | 95 | | 77 | | 40-140 | 21 | | 30 |
| Caprolactam | 54 | | 31 | | 10-130 | **54** | Q | 30 |
| 2,3,4,6-Tetrachlorophenol | 78 | | 58 | | 40-140 | 29 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1652468-2 WG1652468-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 71 | | 54 | | 21-120 |
| Phenol-d6 | 58 | | 44 | | 10-120 |
| Nitrobenzene-d5 | 75 | | 59 | | 23-120 |
| 2-Fluorobiphenyl | 75 | | 53 | | 15-120 |
| 2,4,6-Tribromophenol | 86 | | 63 | | 10-120 |
| 4-Terphenyl-d14 | 71 | | 53 | | 41-149 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1652469-2 WG1652469-3 | | | | | | | | |
| Acenaphthene | 56 | | 72 | | 40-140 | 25 | | 40 |
| 2-Chloronaphthalene | 53 | | 67 | | 40-140 | 23 | | 40 |
| Fluoranthene | 57 | | 74 | | 40-140 | 26 | | 40 |
| Hexachlorobutadiene | 43 | | 52 | | 40-140 | 19 | | 40 |
| Naphthalene | 54 | | 66 | | 40-140 | 20 | | 40 |
| Benzo(a)anthracene | 58 | | 70 | | 40-140 | 19 | | 40 |
| Benzo(a)pyrene | 55 | | 70 | | 40-140 | 24 | | 40 |
| Benzo(b)fluoranthene | 56 | | 70 | | 40-140 | 22 | | 40 |
| Benzo(k)fluoranthene | 62 | | 78 | | 40-140 | 23 | | 40 |
| Chrysene | 56 | | 71 | | 40-140 | 24 | | 40 |
| Acenaphthylene | 53 | | 61 | | 40-140 | 14 | | 40 |
| Anthracene | 56 | | 71 | | 40-140 | 24 | | 40 |
| Benzo(ghi)perylene | 58 | | 72 | | 40-140 | 22 | | 40 |
| Fluorene | 58 | | 72 | | 40-140 | 22 | | 40 |
| Phenanthrene | 57 | | 71 | | 40-140 | 22 | | 40 |
| Dibenzo(a,h)anthracene | 58 | | 73 | | 40-140 | 23 | | 40 |
| Indeno(1,2,3-cd)pyrene | 57 | | 70 | | 40-140 | 20 | | 40 |
| Pyrene | 58 | | 75 | | 40-140 | 26 | | 40 |
| 2-Methylnaphthalene | 54 | | 66 | | 40-140 | 20 | | 40 |
| Pentachlorophenol | 62 | | 85 | | 40-140 | 31 | | 40 |
| Hexachlorobenzene | 60 | | 74 | | 40-140 | 21 | | 40 |
| Hexachloroethane | 42 | | 54 | | 40-140 | 25 | | 40 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1652469-2 WG1652469-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 53 | | 67 | | 21-120 |
| Phenol-d6 | 43 | | 56 | | 10-120 |
| Nitrobenzene-d5 | 57 | | 70 | | 23-120 |
| 2-Fluorobiphenyl | 57 | | 69 | | 15-120 |
| 2,4,6-Tribromophenol | 80 | | 101 | | 10-120 |
| 4-Terphenyl-d14 | 60 | | 76 | | 41-149 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 Batch: WG1653606-2 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 99 | | - | | 67-148 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 97 | | - | | 63-161 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 92 | | - | | 65-157 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 98 | | - | | 69-168 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 97 | | - | | 58-159 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 111 | | - | | 69-177 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 97 | | - | | 63-159 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 101 | | - | | 49-187 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 102 | | - | | 61-179 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 107 | | - | | 68-171 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 109 | | - | | 52-151 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 98 | | - | | 63-171 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 104 | | - | | 56-173 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 99 | | - | | 60-166 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 99 | | - | | 60-153 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 76 | | - | | 38-156 | - | | 30 |
| Perfluorooctanesulfonamide (FOSA) | 97 | | - | | 46-170 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 92 | | - | | 45-170 | - | | 30 |
| Perfluorododecanoic Acid (PFDoA) | 98 | | - | | 67-153 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 105 | | - | | 48-158 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | 94 | | - | | 59-182 | - | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 Batch: WG1653606-2

| Surrogate (Extracted Internal Standard) | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 97 | | | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 111 | | | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 101 | | | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 107 | | | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 102 | | | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 100 | | | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 101 | | | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 74 | | | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 95 | | | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 95 | | | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 93 | | | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 88 | | | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 75 | | | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 89 | | | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 26 | | | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 81 | | | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 89 | | | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 83 | | | | 22-136 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10 Batch: WG1656590-2 WG1656590-3 | | | | | | | | |
| Acenaphthene | 69 | | 66 | | 40-140 | 4 | | 40 |
| 2-Chloronaphthalene | 69 | | 67 | | 40-140 | 3 | | 40 |
| Fluoranthene | 76 | | 75 | | 40-140 | 1 | | 40 |
| Hexachlorobutadiene | 68 | | 67 | | 40-140 | 1 | | 40 |
| Naphthalene | 73 | | 69 | | 40-140 | 6 | | 40 |
| Benzo(a)anthracene | 70 | | 68 | | 40-140 | 3 | | 40 |
| Benzo(a)pyrene | 76 | | 64 | | 40-140 | 17 | | 40 |
| Benzo(b)fluoranthene | 79 | | 79 | | 40-140 | 0 | | 40 |
| Benzo(k)fluoranthene | 76 | | 79 | | 40-140 | 4 | | 40 |
| Chrysene | 72 | | 71 | | 40-140 | 1 | | 40 |
| Acenaphthylene | 71 | | 69 | | 40-140 | 3 | | 40 |
| Anthracene | 72 | | 68 | | 40-140 | 6 | | 40 |
| Benzo(ghi)perylene | 83 | | 79 | | 40-140 | 5 | | 40 |
| Fluorene | 72 | | 69 | | 40-140 | 4 | | 40 |
| Phenanthrene | 70 | | 70 | | 40-140 | 0 | | 40 |
| Dibenzo(a,h)anthracene | 90 | | 89 | | 40-140 | 1 | | 40 |
| Indeno(1,2,3-cd)pyrene | 86 | | 84 | | 40-140 | 2 | | 40 |
| Pyrene | 76 | | 71 | | 40-140 | 7 | | 40 |
| 2-Methylnaphthalene | 79 | | 72 | | 40-140 | 9 | | 40 |
| Pentachlorophenol | 69 | | 65 | | 40-140 | 6 | | 40 |
| Hexachlorobenzene | 74 | | 73 | | 40-140 | 1 | | 40 |
| Hexachloroethane | 67 | | 67 | | 40-140 | 0 | | 40 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10 Batch: WG1656590-2 WG1656590-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 65 | | 62 | | 21-120 |
| Phenol-d6 | 57 | | 54 | | 10-120 |
| Nitrobenzene-d5 | 84 | | 83 | | 23-120 |
| 2-Fluorobiphenyl | 72 | | 70 | | 15-120 |
| 2,4,6-Tribromophenol | 99 | | 91 | | 10-120 |
| 4-Terphenyl-d14 | 85 | | 84 | | 41-149 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1656591-2 WG1656591-3 | | | | | | | | |
| Bis(2-chloroethyl)ether | 48 | | 53 | | 40-140 | 10 | | 30 |
| 3,3'-Dichlorobenzidine | 51 | | 56 | | 40-140 | 9 | | 30 |
| 2,4-Dinitrotoluene | 55 | | 61 | | 48-143 | 10 | | 30 |
| 2,6-Dinitrotoluene | 57 | | 64 | | 40-140 | 12 | | 30 |
| 4-Chlorophenyl phenyl ether | 46 | | 53 | | 40-140 | 14 | | 30 |
| 4-Bromophenyl phenyl ether | 51 | | 57 | | 40-140 | 11 | | 30 |
| Bis(2-chloroisopropyl)ether | 44 | | 50 | | 40-140 | 13 | | 30 |
| Bis(2-chloroethoxy)methane | 48 | | 57 | | 40-140 | 17 | | 30 |
| Hexachlorocyclopentadiene | 42 | | 49 | | 40-140 | 15 | | 30 |
| Isophorone | 46 | | 53 | | 40-140 | 14 | | 30 |
| Nitrobenzene | 49 | | 57 | | 40-140 | 15 | | 30 |
| NDPA/DPA | 49 | | 55 | | 40-140 | 12 | | 30 |
| n-Nitrosodi-n-propylamine | 50 | | 55 | | 29-132 | 10 | | 30 |
| Bis(2-ethylhexyl)phthalate | 59 | | 66 | | 40-140 | 11 | | 30 |
| Butyl benzyl phthalate | 64 | | 73 | | 40-140 | 13 | | 30 |
| Di-n-butylphthalate | 49 | | 58 | | 40-140 | 17 | | 30 |
| Di-n-octylphthalate | 60 | | 66 | | 40-140 | 10 | | 30 |
| Diethyl phthalate | 49 | | 57 | | 40-140 | 15 | | 30 |
| Dimethyl phthalate | 51 | | 60 | | 40-140 | 16 | | 30 |
| Biphenyl | 55 | | 64 | | 40-140 | 15 | | 30 |
| 4-Chloroaniline | 47 | | 59 | | 40-140 | 23 | | 30 |
| 2-Nitroaniline | 62 | | 67 | | 52-143 | 8 | | 30 |
| 3-Nitroaniline | 56 | | 63 | | 25-145 | 12 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1656591-2 WG1656591-3 | | | | | | | | |
| 4-Nitroaniline | 54 | | 61 | | 51-143 | 12 | | 30 |
| Dibenzofuran | 46 | | 54 | | 40-140 | 16 | | 30 |
| 1,2,4,5-Tetrachlorobenzene | 57 | | 64 | | 2-134 | 12 | | 30 |
| Acetophenone | 52 | | 60 | | 39-129 | 14 | | 30 |
| 2,4,6-Trichlorophenol | 55 | | 64 | | 30-130 | 15 | | 30 |
| p-Chloro-m-cresol | 53 | | 63 | | 23-97 | 17 | | 30 |
| 2-Chlorophenol | 50 | | 56 | | 27-123 | 11 | | 30 |
| 2,4-Dichlorophenol | 54 | | 62 | | 30-130 | 14 | | 30 |
| 2,4-Dimethylphenol | 52 | | 60 | | 30-130 | 14 | | 30 |
| 2-Nitrophenol | 60 | | 69 | | 30-130 | 14 | | 30 |
| 4-Nitrophenol | 47 | | 52 | | 10-80 | 10 | | 30 |
| 2,4-Dinitrophenol | 58 | | 66 | | 20-130 | 13 | | 30 |
| 4,6-Dinitro-o-cresol | 54 | | 62 | | 20-164 | 14 | | 30 |
| Phenol | 36 | | 40 | | 12-110 | 11 | | 30 |
| 2-Methylphenol | 48 | | 59 | | 30-130 | 21 | | 30 |
| 3-Methylphenol/4-Methylphenol | 50 | | 59 | | 30-130 | 17 | | 30 |
| 2,4,5-Trichlorophenol | 58 | | 67 | | 30-130 | 14 | | 30 |
| Carbazole | **48** | Q | 57 | | 55-144 | 17 | | 30 |
| Atrazine | 71 | | 85 | | 40-140 | 18 | | 30 |
| Benzaldehyde | 65 | | 72 | | 40-140 | 10 | | 30 |
| Caprolactam | 30 | | 32 | | 10-130 | 6 | | 30 |
| 2,3,4,6-Tetrachlorophenol | 52 | | 60 | | 40-140 | 14 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1656591-2 WG1656591-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 46 | | 51 | | 21-120 |
| Phenol-d6 | 38 | | 42 | | 10-120 |
| Nitrobenzene-d5 | 49 | | 60 | | 23-120 |
| 2-Fluorobiphenyl | 49 | | 57 | | 15-120 |
| 2,4,6-Tribromophenol | 62 | | 74 | | 10-120 |
| 4-Terphenyl-d14 | 50 | | 58 | | 41-149 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1652468-4 WG1652468-5 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 18.2 | 8.8 | 48 | | 7.8 | 43 | | 40-140 | 12 | | 30 |
| 3,3'-Dichlorobenzidine | ND | 18.2 | 4.1J | **23** | Q | 4.8J | **26** | Q | 40-140 | 16 | | 30 |
| 2,4-Dinitrotoluene | ND | 18.2 | 11 | 61 | | 12 | 66 | | 48-143 | 9 | | 30 |
| 2,6-Dinitrotoluene | ND | 18.2 | 11 | 61 | | 11 | 61 | | 40-140 | 0 | | 30 |
| 4-Chlorophenyl phenyl ether | ND | 18.2 | 8.9 | 49 | | 9.2 | 51 | | 40-140 | 3 | | 30 |
| 4-Bromophenyl phenyl ether | ND | 18.2 | 9.4 | 52 | | 9.5 | 52 | | 40-140 | 1 | | 30 |
| Bis(2-chloroisopropyl)ether | ND | 18.2 | 10 | 55 | | 9.4 | 52 | | 40-140 | 6 | | 30 |
| Bis(2-chloroethoxy)methane | ND | 18.2 | 9.7 | 53 | | 9.0 | 50 | | 40-140 | 7 | | 30 |
| Hexachlorocyclopentadiene | ND | 18.2 | 9.0J | 50 | | 9.1J | 50 | | 40-140 | 1 | | 30 |
| Isophorone | ND | 18.2 | 8.5 | 47 | | 8.0 | 44 | | 40-140 | 6 | | 30 |
| Nitrobenzene | ND | 18.2 | 9.4 | 52 | | 8.8 | 48 | | 40-140 | 7 | | 30 |
| NDPA/DPA | ND | 18.2 | 8.5 | 47 | | 9.2 | 51 | | 40-140 | 8 | | 30 |
| n-Nitrosodi-n-propylamine | ND | 18.2 | 8.3 | 46 | | 8.0 | 44 | | 29-132 | 4 | | 30 |
| Bis(2-ethylhexyl)phthalate | ND | 18.2 | 9.4 | 52 | | 10 | 55 | | 40-140 | 6 | | 30 |
| Butyl benzyl phthalate | ND | 18.2 | 8.2 | 45 | | 9.4 | 52 | | 40-140 | 14 | | 30 |
| Di-n-butylphthalate | ND | 18.2 | 8.2 | 45 | | 9.0 | 50 | | 40-140 | 9 | | 30 |
| Di-n-octylphthalate | ND | 18.2 | 8.3 | 46 | | 9.0 | 50 | | 40-140 | 8 | | 30 |
| Diethyl phthalate | ND | 18.2 | 9.0 | 50 | | 9.5 | 52 | | 40-140 | 5 | | 30 |
| Dimethyl phthalate | ND | 18.2 | 9.9 | 54 | | 10 | 55 | | 40-140 | 1 | | 30 |
| Biphenyl | ND | 18.2 | 9.4 | 52 | | 9.5 | 52 | | 40-140 | 1 | | 30 |
| 4-Chloroaniline | ND | 18.2 | 4.9J | **27** | Q | 4.6J | **25** | Q | 40-140 | 6 | | 30 |
| 2-Nitroaniline | ND | 18.2 | 12 | 66 | | 12 | 66 | | 52-143 | 0 | | 30 |
| 3-Nitroaniline | ND | 18.2 | 9.6 | 53 | | 10 | 55 | | 25-145 | 4 | | 30 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1652468-4 WG1652468-5 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| 4-Nitroaniline | ND | 18.2 | 10 | 55 | | 11 | 61 | | 51-143 | 10 | | 30 |
| Dibenzofuran | ND | 18.2 | 8.8 | 48 | | 9.4 | 52 | | 40-140 | 7 | | 30 |
| 1,2,4,5-Tetrachlorobenzene | ND | 18.2 | 9.1J | 50 | | 8.6J | 47 | | 2-134 | 6 | | 30 |
| Acetophenone | ND | 18.2 | 9.1 | 50 | | 8.2 | 45 | | 39-129 | 10 | | 30 |
| 2,4,6-Trichlorophenol | ND | 18.2 | 9.3 | 51 | | 8.7 | 48 | | 30-130 | 7 | | 30 |
| p-Chloro-m-cresol | ND | 18.2 | 8.5 | 47 | | 8.9 | 49 | | 23-97 | 5 | | 30 |
| 2-Chlorophenol | ND | 18.2 | 9.5 | 52 | | 9.1 | 50 | | 27-123 | 4 | | 30 |
| 2,4-Dichlorophenol | ND | 18.2 | 10 | 55 | | 9.4 | 52 | | 30-130 | 6 | | 30 |
| 2,4-Dimethylphenol | ND | 18.2 | 4.3J | **24** | Q | 4.4J | **24** | Q | 30-130 | 2 | | 30 |
| 2-Nitrophenol | ND | 18.2 | 13 | 72 | | 12 | 66 | | 30-130 | 8 | | 30 |
| 4-Nitrophenol | ND | 18.2 | 7.6J | 42 | | 8.3J | 46 | | 10-80 | 9 | | 30 |
| 2,4-Dinitrophenol | ND | 18.2 | 15.J | 83 | | 14.J | 77 | | 20-130 | 7 | | 30 |
| 4,6-Dinitro-o-cresol | ND | 18.2 | 15 | 83 | | 15 | 83 | | 20-164 | 0 | | 30 |
| Phenol | ND | 18.2 | 6.9 | 38 | | 6.8 | 37 | | 12-110 | 1 | | 30 |
| 2-Methylphenol | ND | 18.2 | 8.0 | 44 | | 7.6 | 42 | | 30-130 | 5 | | 30 |
| 3-Methylphenol/4-Methylphenol | ND | 18.2 | 8.3 | 46 | | 8.2 | 45 | | 30-130 | 1 | | 30 |
| 2,4,5-Trichlorophenol | ND | 18.2 | 9.5 | 52 | | 9.8 | 54 | | 30-130 | 3 | | 30 |
| Carbazole | ND | 18.2 | 8.0 | **44** | Q | 9.1 | **50** | Q | 55-144 | 13 | | 30 |
| Atrazine | ND | 18.2 | 9.2J | 51 | | 9.5J | 52 | | 40-140 | 3 | | 30 |
| Benzaldehyde | ND | 18.2 | 8.7 | 48 | | 7.9 | 43 | | 40-140 | 10 | | 30 |
| Caprolactam | ND | 18.2 | 5.0J | 28 | | 5.1J | 28 | | 10-130 | 2 | | 30 |
| 2,3,4,6-Tetrachlorophenol | ND | 18.2 | 9.4 | 52 | | 9.3 | 51 | | 40-140 | 1 | | 30 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** OREGON ROAD SITE

***Project Number:*** T0311-020-001

***Lab Number:*** L2231832

***Report Date:*** 07/07/22

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1652468-4 WG1652468-5 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |

| *Surrogate* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 48 | | 51 | | 10-120 |
| 2-Fluorobiphenyl | 49 | | 48 | | 15-120 |
| 2-Fluorophenol | 41 | | 40 | | 21-120 |
| 4-Terphenyl-d14 | 41 | | 48 | | 41-149 |
| Nitrobenzene-d5 | 52 | | 49 | | 23-120 |
| Phenol-d6 | 35 | | 34 | | 10-120 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1652469-4 WG1652469-5 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| Acenaphthene | ND | 18.2 | 9.2 | 51 | | 8.4 | 46 | | 40-140 | 9 | | 40 |
| 2-Chloronaphthalene | ND | 18.2 | 8.8 | 48 | | 7.7 | 42 | | 40-140 | 13 | | 40 |
| Fluoranthene | ND | 18.2 | 9.3 | 51 | | 8.5 | 47 | | 40-140 | 9 | | 40 |
| Hexachlorobutadiene | ND | 18.2 | 8.2 | 45 | | 7.1 | **39** | Q | 40-140 | 14 | | 40 |
| Naphthalene | ND | 18.2 | 8.8 | 48 | | 7.6 | 42 | | 40-140 | 15 | | 40 |
| Benzo(a)anthracene | ND | 18.2 | 8.7 | 48 | | 7.9 | 43 | | 40-140 | 10 | | 40 |
| Benzo(a)pyrene | ND | 18.2 | 8.2 | 45 | | 7.3 | 40 | | 40-140 | 12 | | 40 |
| Benzo(b)fluoranthene | ND | 18.2 | 9.0 | 50 | | 8.4 | 46 | | 40-140 | 7 | | 40 |
| Benzo(k)fluoranthene | ND | 18.2 | 9.5 | 52 | | 8.0 | 44 | | 40-140 | 17 | | 40 |
| Chrysene | ND | 18.2 | 8.9 | 49 | | 8.0 | 44 | | 40-140 | 11 | | 40 |
| Acenaphthylene | ND | 18.2 | 8.4 | 46 | | 7.4 | 41 | | 40-140 | 13 | | 40 |
| Anthracene | ND | 18.2 | 9.2 | 51 | | 8.3 | 46 | | 40-140 | 10 | | 40 |
| Benzo(ghi)perylene | ND | 18.2 | 9.2 | 51 | | 8.2 | 45 | | 40-140 | 11 | | 40 |
| Fluorene | ND | 18.2 | 9.5 | 52 | | 8.6 | 47 | | 40-140 | 10 | | 40 |
| Phenanthrene | ND | 18.2 | 9.0 | 50 | | 8.0 | 44 | | 40-140 | 12 | | 40 |
| Dibenzo(a,h)anthracene | ND | 18.2 | 9.5 | 52 | | 8.5 | 47 | | 40-140 | 11 | | 40 |
| Indeno(1,2,3-cd)pyrene | ND | 18.2 | 9.9 | 54 | | 8.8 | 48 | | 40-140 | 12 | | 40 |
| Pyrene | ND | 18.2 | 9.6 | 53 | | 8.7 | 48 | | 40-140 | 10 | | 40 |
| 2-Methylnaphthalene | ND | 18.2 | 9.0 | 50 | | 7.7 | 42 | | 40-140 | 16 | | 40 |
| Pentachlorophenol | ND | 18.2 | 10 | 55 | | 9.4 | 52 | | 40-140 | 6 | | 40 |
| Hexachlorobenzene | ND | 18.2 | 10 | 55 | | 9.1 | 50 | | 40-140 | 9 | | 40 |
| Hexachloroethane | ND | 18.2 | 7.5 | 41 | | 6.7 | **37** | Q | 40-140 | 11 | | 40 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** OREGON ROAD SITE

***Project Number:*** T0311-020-001

***Lab Number:*** L2231832

***Report Date:*** 07/07/22

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1652469-4 WG1652469-5 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |

| *Surrogate* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 70 | | 63 | | 10-120 |
| 2-Fluorobiphenyl | 46 | | 40 | | 15-120 |
| 2-Fluorophenol | 44 | | 39 | | 21-120 |
| 4-Terphenyl-d14 | 50 | | 46 | | 41-149 |
| Nitrobenzene-d5 | 46 | | 41 | | 23-120 |
| Phenol-d6 | 37 | | 34 | | 10-120 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001
**Lab Number:** L2231832
**Report Date:** 07/07/22

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 QC Batch ID: WG1653606-3 WG1653606-4 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 6.51 | 34.5 | 41.6 | 102 | | 40.0 | 96 | | 67-148 | 4 | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 2.11 | 34.5 | 37.0 | 101 | | 36.2 | 97 | | 63-161 | 2 | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 2.32 | 30.6 | 31.8 | 96 | | 30.4 | 90 | | 65-157 | 5 | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 4.63 | 34.5 | 40.4 | 104 | | 37.6 | 94 | | 69-168 | 7 | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 0.855J | 34.5 | 36.7 | 104 | | 33.9 | 94 | | 58-159 | 8 | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 15.9 | 31.5 | 51.9 | 114 | | 50.4 | 108 | | 69-177 | 3 | | 30 |
| Perfluorooctanoic Acid (PFOA) | 0.816JF | 34.5 | 37.9F | 108 | | 36.7 | 103 | | 63-159 | 3 | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 32.8 | 34.8 | 106 | | 34.0 | 102 | | 49-187 | 2 | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | 32.9 | 34.7 | 106 | | 31.2 | 94 | | 61-179 | 11 | | 30 |
| Perfluorononanoic Acid (PFNA) | ND | 34.5 | 38.2 | 111 | | 36.9 | 105 | | 68-171 | 3 | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 21.8 | 32 | 56.7 | 109 | | 52.2 | 94 | | 52-151 | 8 | | 30 |
| Perfluorodecanoic Acid (PFDA) | ND | 34.5 | 35.3 | 102 | | 32.9 | 94 | | 63-171 | 7 | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 33.1 | 34.0 | 103 | | 30.6 | 91 | | 56-173 | 11 | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 34.5 | 35.0 | 102 | | 34.1 | 98 | | 60-166 | 3 | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | 34.5 | 37.7 | 109 | | 35.0 | 100 | | 60-153 | 7 | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | 33.3 | 25.2 | 76 | | 20.8 | 62 | | 38-156 | 19 | | 30 |
| Perfluorooctanesulfonamide (FOSA) | ND | 34.5 | 31.2F | 90 | | 33.5F | 96 | | 46-170 | 7 | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 34.5 | 34.2 | 99 | | 30.5 | 87 | | 45-170 | 11 | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | 34.5 | 33.8 | 98 | | 31.0 | 89 | | 67-153 | 9 | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | 34.5 | 35.5 | 103 | | 35.0 | 100 | | 48-158 | 1 | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | ND | 34.5 | 36.0 | 104 | | 28.7 | 82 | | 59-182 | 23 | | 30 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** OREGON ROAD SITE

***Project Number:*** T0311-020-001

***Lab Number:*** L2231832

***Report Date:*** 07/07/22

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 QC Batch ID: WG1653606-3 WG1653606-4 QC Sample: L2231832-09 Client ID: MW-16 | | | | | | | | | | | | |

| *Surrogate (Extracted Internal Standard)* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 92 | | 101 | | 10-162 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 110 | | 127 | | 14-147 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 66 | | 74 | | 27-126 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 65 | | 64 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 71 | | 77 | | 55-137 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 79 | | 83 | | 62-124 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 81 | | 82 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 85 | | 84 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 92 | | 102 | | 71-134 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 67 | | 76 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 60 | | 66 | | 22-136 |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 85 | | 90 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 104 | | 112 | | 62-163 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 10 | | 13 | | 10-112 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 87 | | 102 | | 69-131 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 87 | | 85 | | 62-129 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 80 | | 82 | | 59-139 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 89 | | 99 | | 70-131 |

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

## 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(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2231832-01A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-01B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-01C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-01D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-01E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-02A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-02B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-02C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-02D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-02E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-03A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-03B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-03C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-03D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-03E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-04A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-04B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-04C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-04D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-04E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-05A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-05B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

**Project Name:** OREGON ROAD SITE
**Project Number:** T0311-020-001

**Lab Number:** L2231832
**Report Date:** 07/07/22

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2231832-05C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-05D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-05E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-06A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-06B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-06C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-06D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-06E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-06F | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-06G | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-07A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-07B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-07C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-07D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-07E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-08A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-08B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-08C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-08D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-08E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09A1 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09A2 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09B1 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09B2 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09C1 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

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## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2231832-09C2 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-09D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09D1 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09D2 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09E1 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09E2 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-09F | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-09F1 | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-09F2 | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-09G | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-09G1 | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-09G2 | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-10A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-10B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-10C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2231832-10D | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-10E | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2231832-10F | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-10G | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-11A | Plastic 250ml unpreserved | B | NA | | 2.1 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2231832-12A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | ARCHIVE() |
| L2231832-12B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | ARCHIVE() |



*Values in parentheses indicate holding time in days

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## PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|---|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs) | | |
| Perfluorooctadecanoic Acid | PFODA | 16517-11-6 |
| Perfluorohexadecanoic Acid | PFHxDA | 67905-19-5 |
| Perfluorotetradecanoic Acid | PFTA | 376-06-7 |
| Perfluorotridecanoic Acid | PFTrDA | 72629-94-8 |
| Perfluorododecanoic Acid | PFDoA | 307-55-1 |
| Perfluoroundecanoic Acid | PFUnA | 2058-94-8 |
| Perfluorodecanoic Acid | PFDA | 335-76-2 |
| Perfluorononanoic Acid | PFNA | 375-95-1 |
| Perfluorooctanoic Acid | PFOA | 335-67-1 |
| Perfluoroheptanoic Acid | PFHpA | 375-85-9 |
| Perfluorohexanoic Acid | PFHxA | 307-24-4 |
| Perfluoropentanoic Acid | PFPeA | 2706-90-3 |
| Perfluorobutanoic Acid | PFBA | 375-22-4 |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs) | | |
| Perfluorododecanesulfonic Acid | PFDoDS | 79780-39-5 |
| Perfluorodecanesulfonic Acid | PFDS | 335-77-3 |
| Perfluorononanesulfonic Acid | PFNS | 68259-12-1 |
| Perfluorooctanesulfonic Acid | PFOS | 1763-23-1 |
| Perfluoroheptanesulfonic Acid | PFHpS | 375-92-8 |
| Perfluorohexanesulfonic Acid | PFHxS | 355-46-4 |
| Perfluoropentanesulfonic Acid | PFPeS | 2706-91-4 |
| Perfluorobutanesulfonic Acid | PFBS | 375-73-5 |
| FLUOROTELOMERS | | |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid | 10:2FTS | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid | 8:2FTS | 39108-34-4 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid | 6:2FTS | 27619-97-2 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid | 4:2FTS | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs) | | |
| Perfluorooctanesulfonamide | FOSA | 754-91-6 |
| N-Ethyl Perfluorooctane Sulfonamide | NEtFOSA | 4151-50-2 |
| N-Methyl Perfluorooctane Sulfonamide | NMeFOSA | 31506-32-8 |
| PERFLUOROALKANE SULFONYL SUBSTANCES | | |
| N-Ethyl Perfluorooctanesulfonamido Ethanol | NEtFOSE | 1691-99-2 |
| N-Methyl Perfluorooctanesulfonamido Ethanol | NMeFOSE | 24448-09-7 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid | NEtFOSAA | 2991-50-6 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid | NMeFOSAA | 2355-31-9 |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS | | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA | 13252-13-6 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid | ADONA | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS | | |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid | 9Cl-PF3ONS | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESAs) | | |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid | PFEESA | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs) | | |
| Perfluoro-3-Methoxypropanoic Acid | PFMPA | 377-73-1 |
| Perfluoro-4-Methoxybutanoic Acid | PFMBA | 863090-89-5 |
| Nonafluoro-3,6-Dioxaheptanoic Acid | NFDHA | 151772-58-6 |

| | | | |
|---|---|---|---|
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## 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.)<br><br>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*

| | | | |
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***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*

| | | | |
|---|---|---|---|
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***Data Qualifiers***

Identified Compounds (TICs).

**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:** | OREGON ROAD SITE | **Lab Number:** | L2231832 |
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## REFERENCES


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

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.


## 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 624/624.1:** m/p-xylene, o-xylene, Naphthalene
**EPA 625/625.1:** alpha-Terpineol
**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270D/8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
**SM4500**: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

**Mansfield Facility**
**SM 2540D:** TSS
**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
**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.
**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 332**: Perchlorate; **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), **EPA 600/4-81-045**: PCB-Oil.
**Microbiology**: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, 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.

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/16/22

ALPHA Job #: L2231832

## Client Information
Client: Turnkey
Address: 2558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716-856-0599
Fax:
Email: Linker@bm-tk.com

## Project Information
Project Name: Oregon Road Site
Project Location: Olean, NY
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

## Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

## Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Billing Information
☐ Same as Client Info
PO #

## Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

**Sample Filtration**
☐ Done
☐ Lab to do
***Preservation***
☐ Lab to do
***(Please Specify below)***

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TAL+CP-51 VOCs+TICs | TAL+CP-51 SVOCs+TICs | PFAS EPA 537 | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|---|
| 31832-01 | MW-2R | 6-14-22 | 1545 | water | CEH | X | X | | | |
| -02 | MW-5 | | 1348 | | | X | X | | | |
| -03 | MW-7 | | 1725 | | | X | X | | | |
| -04 | MW-8 | | 1430 | | | X | X | | | |
| -05 | MW-9 | | 1635 | | | X | X | | | |
| -06 | MW-12 | | 1050 | | | X | X | X | | |
| -07 | MW-13 | | 1235 | | | X | X | | | |
| -08 | MW-15 | | 1140 | | | X | X | | | |
| -09 | MW-16 | | 0945 | | | X | X | X | | |
| -09 | MS/MSD | | 0945 | | | X | X | X | | |

Container Type: V A P
Preservative: B A A

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| Chester Hardcastle | 6-14-22/1900 | AAL | 6/15/22 14:30 |
| AAL | 6/15/22 16:45 | | 6/16/22 0020 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/16/22

ALPHA Job #: L2231832

## Client Information

Client: Turnkey
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: Lbiker@bm-tk.com

## Project Information

Project Name: Oregon Road Site
Project Location: Olean, NY
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

## Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

## Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Billing Information

☐ Same as Client Info
PO #

## Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

***Sample Filtration***
☐ Done
☐ Lab to do
***Preservation***
☐ Lab to do
***(Please Specify below)***

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL+CP-51 VOCs + TICs | TCL+CP-51 SVOCs + TICs | PFAS EPA 537 | Total Bottle | Sample Specific Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 31832-10 | Blind Dup | 6-14-22 | 0800 | water | CEH | X | X | X | | |
| -11 | Field Blank | 6-14-22 | 1200 | water | CEH | | | X | | |
| | | | | | | | | | | |
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|---|---|---|---|---|---|---|---|---|---|---|
| Container Type | V | A | P | | | | | | | |
| Preservative | B | A | A | | | | | | | |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| Charlie Hochwarter | 6-14-22 / 1900 | [signature] AAL | 6/15/22 14:30 |
| [signature] AAL | 6/15/22 16:48 | [signature] | 6/16/22 0020 |
| | | | |
| | | | |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date:

Location: | Project No.: | Field Team:

| Well No. MW-2R | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 / 1545 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 12.28 | | | DTW when sampled: 10.15 | | | |
| DTW (static) (fbTOR): 5.90 | | | One Well Volume (gal): 2.00 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.18 | | | Total Volume Purged (gal): 6.00 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1510 | 0 Initial | 0.00 | 6.85 | 21.1 | 662.2 | >1000 | 0.05 | -149 | Turbid, no odor |
| 1514 | 1 7.55 | 0.25 | 6.81 | 18.3 | 623.7 | >1000 | 0.48 | -117 | " " " |
| 1517 | 2 8.58 | 0.75 | 6.72 | 18.3 | 617.1 | >1000 | 1.31 | -101 | " " " |
| 1520 | 3 9.00 | 1.25 | 6.70 | 18.3 | 617.8 | 583 | 1.10 | -96 | " " " |
| 1523 | 4 9.55 | 1.75 | 6.68 | 17.8 | 616.7 | 273 | 1.28 | -95 | " " " |
| 1527 | 5 9.78 | 2.25 | 6.66 | 18.0 | 631.9 | 111 | 0.89 | -99 | SL Turbid, no odor |
| 1531 | 6 9.95 | 3.00 | 6.73 | 16.8 | 636.0 | 91.7 | 0.89 | -100 | " " " " |
| 1535 | 7 10.00 | 3.75 | 6.74 | 17.8 | 638.2 | 46.0 | 1.14 | -101 | Clear, no odor |
| 1538 | 8 10.07 | 4.25 | 6.74 | 17.4 | 637.6 | 44.0 | 1.40 | -102 | " " " |
| 1541 | 9 10.11 | 5.00 | 6.77 | 16.6 | 635.1 | 39.1 | 1.39 | -99 | " " " |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1545 | S1 10.15 | 5.50 | 6.76 | 16.6 | 634.2 | 24.0 | 1.70 | -100 | Clear, no odor |
| 1551 | S2 10.21 | 6.00 | 6.75 | 19.8 | 636.1 | 24.1 | 1.39 | -101 | " " " |

| Well No. MW-5 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 / 1348 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 6.05 | | | DTW when sampled: 13.24 | | | |
| DTW (static) (fbTOR): 12.32 | | | One Well Volume (gal): 0.99 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.37 | | | Total Volume Purged (gal): 4.00 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1332 | 0 Initial | 0.00 | 6.32 | 24.7 | 482.2 | >1000 | 1.66 | -80 | Turbid, no odor |
| 1335 | 1 12.85 | 0.25 | 6.17 | 18.4 | 470.0 | >1000 | 0.90 | -63 | " " " |
| 1337 | 2 13.01 | 0.75 | 6.17 | 16.7 | 472.2 | 175 | 0.81 | -50 | SL turbid, no odor |
| 1339 | 3 13.13 | 1.25 | 6.15 | 16.3 | 478.4 | 93.3 | 0.84 | -48 | " " " " |
| 1341 | 4 13.21 | 1.75 | 6.14 | 15.6 | 479.9 | 24.4 | 0.70 | -48 | Clear, no odor |
| 1343 | 5 13.22 | 2.25 | 6.14 | 16.0 | 483.7 | 17.1 | 1.27 | -47 | " " " |
| 1345 | 6 13.22 | 2.75 | 6.14 | 15.5 | 488.2 | 11.9 | 1.12 | -49 | " " " |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1348 | S1 13.24 | 3.25 | 6.17 | 15.5 | 486.0 | 10.8 | 1.16 | -48 | Clear, no odor |
| 1352 | S2 13.26 | 4.00 | 6.16 | 17.6 | 488.7 | 9.98 | 0.77 | -52 | " " " |

**REMARKS:** MW-4 : 5.50'
MW-6: 6.60'
MW-10: 11.45'
MW-11: 9.16'

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: Oregon Road Site
Location:
Project No.:
Date: 6-14-22
Field Team: CEH

| Well No. MW-7 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 / 1725 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 9.43 | | | DTW when sampled: 16.83 | | | |
| DTW (static) (fbTOR): 10.30 | | | One Well Volume (gal): 1.54 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 19.73 | | | Total Volume Purged (gal): 3.00 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1706 | 0 Initial | 0.00 | 6.37 | 19.1 | 347.0 | 207 | 0.98 | -29 | Sl. Turbid, no odor |
| 1709 | 1 12.90 | 0.50 | 6.03 | 17.7 | 255.0 | 53.9 | 0.85 | 26 | Clear, no odor |
| 1711 | 2 13.35 | 0.75 | 5.81 | 17.5 | 253.0 | 38.4 | 1.16 | 52 | " " " |
| 1714 | 3 13.49 | 1.00 | 5.75 | 16.3 | 267.1 | 36.6 | 0.80 | 65 | " " " |
| 1716 | 4 15.36 | 1.50 | 5.75 | 16.2 | 278.4 | 26.0 | 1.25 | 72 | " " " |
| 1718 | 5 15.50 | 1.75 | 5.76 | 16.3 | 285.5 | 25.1 | 0.99 | 78 | " " " |
| 1720 | 6 16.33 | 2.00 | 5.75 | 16.1 | 289.6 | 34.9 | 1.24 | 79 | " " " |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1725 | S1 16.83 | 2.50 | 5.77 | 15.8 | 289.4 | 33.1 | 1.12 | 79 | Clear, no odor |
| 1727 | S2 17.33 | 3.00 | 5.77 | 16.1 | 276.7 | 44.7 | 1.25 | 88 | " " " |

| Well No. MW-8 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 / 1430 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 17.2 | | | DTW when sampled: 15.07 | | | |
| DTW (static) (fbTOR): 0.90 | | | One Well Volume (gal): 2.80 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.10 | | | Total Volume Purged (gal): 7.00 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1414 | 0 Initial | 0.00 | 6.41 | 20.9 | 966.9 | 460 | 0.75 | -113 | Turbid, no odor |
| 1418 | 1 6.23 | 1.00 | 6.45 | 18.2 | 950.6 | >1000 | 0.63 | -109 | " " " |
| 1420 | 2 10.08 | 2.00 | 6.49 | 18.2 | 896.7 | >1000 | 0.72 | -111 | " " " |
| 1422 | 3 13.02 | 3.00 | 6.48 | 16.4 | 936.7 | >1000 | 0.51 | -109 | " " " |
| 1424 | 4 14.07 | 4.00 | 6.49 | 15.6 | 946.4 | >1000 | 0.62 | -106 | " " " |
| 1426 | 5 14.55 | 5.00 | 6.48 | 14.7 | 948.3 | >1000 | 0.54 | -107 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1430 | S1 15.07 | 6.00 | 6.49 | 14.5 | 940.8 | >1000 | 0.74 | -106 | Turbid, no odor |
| 1433 | S2 15.54 | 7.00 | 6.50 | 16.1 | 932.4 | >1000 | 0.66 | -110 | " " " |

**REMARKS:**

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: Oregon Road Site
Location: Project No.:
Date: 6-14-22
Field Team: CEH

| Well No. MW-9 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 1635 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 12.02 | | | DTW when sampled: 6.75 | | | |
| DTW (static) (fbTOR): 5.50 | | | One Well Volume (gal): 1.96 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 17.07 | | | Total Volume Purged (gal): 2.50 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1611 | 0 Initial | 0.00 | 6.60 | 21.5 | 681.1 | >1000 | 1.47 | -85 | Turbid, no odor |
| 1614 | 1 7.05 | 0.25 | 6.57 | 18.0 | 665.4 | 216 | 0.96 | -72 | SL Turbid, no odor |
| 1618 | 2 6.70 | 0.50 | 6.55 | 18.4 | 664.6 | 99.1 | 1.15 | -67 | clear, no odor |
| 1620 | 3 6.71 | 0.75 | 6.56 | 18.0 | 655.7 | 80.7 | 1.10 | -66 | " " " |
| 1623 | 4 6.71 | 1.00 | 6.57 | 17.5 | 658.6 | 58.0 | 1.12 | -66 | " " " |
| 1626 | 5 6.75 | 1.25 | 6.55 | 17.5 | 662.0 | 33.7 | 1.11 | -65 | " " " |
| 1628 | 6 6.76 | 1.50 | 6.55 | 17.4 | 662.8 | 28.3 | 1.25 | -66 | " " " |
| 1631 | 7 6.75 | 1.75 | 6.55 | 17.7 | 662.8 | 18.2 | 1.14 | -65 | " " " |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1635 | S1 6.75 | 2.00 | 6.58 | 17.0 | 663.0 | 13.5 | 1.38 | -68 | clear, no odor |
| 1639 | S2 6.74 | 2.50 | 6.56 | 18.9 | 662.2 | 14.8 | 1.30 | -62 | " " " |

| Well No. MW-12 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 1050 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 4.09 | | | DTW when sampled: 15.50 | | | |
| DTW (static) (fbTOR): 15.28 | | | One Well Volume (gal): 0.67 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 19.37 | | | Total Volume Purged (gal): 5.00 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1033 | 0 Initial | 0.00 | 6.29 | 19.2 | 632.3 | >1000 | 0.52 | 62 | Turbid, no odor |
| 1036 | 1 15.47 | 0.25 | 6.48 | 15.5 | 608.3 | 320 | 0.93 | 48 | " " " |
| 1039 | 2 15.47 | 0.75 | 6.52 | 15.2 | 618.4 | 77.5 | 0.76 | 39 | clear, no odor |
| 1041 | 3 15.49 | 1.25 | 6.55 | 14.8 | 623.5 | 46.3 | 0.93 | 33 | " " " |
| 1043 | 4 15.50 | 2.00 | 6.55 | 14.3 | 625.3 | 41.9 | 0.64 | 33 | " " " |
| 1045 | 5 15.50 | 2.75 | 6.55 | 14.5 | 625.7 | 44.8 | 0.88 | 29 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1050 | S1 15.50 | 3.50 | 6.59 | 14.8 | 629.9 | 51.2 | 0.45 | 27 | clear, no odor |
| 1056 | S2 15.51 | 5.00 | 6.60 | 15.9 | 623.3 | 42.4 | 0.58 | 13 | " " " |

**REMARKS:** Took Blind Dup with MW-12

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: Oregon Road Site | Date:

Location: | Project No.: | Field Team:

| Well No. MW-13 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 / 1235 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 18.21 | | | DTW when sampled: 17.07 | | | |
| DTW (static) (fbTOR): 2.18 | | | One Well Volume (gal): 2.97 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 20.39 | | | Total Volume Purged (gal): 9.00 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1211 | 0 Initial | 0.00 | 7.49 | 20.8 | 457.9 | >1000 | 1.16 | -101 | Turbid, no odor |
| 1214 | 1 4.86 | 0.50 | 7.52 | 18.0 | 454.6 | 249 | 0.82 | -64 | SL Turbid, " " |
| 1216 | 2 7.00 | 1.00 | 7.57 | 16.4 | 453.6 | 93.7 | 0.98 | -51 | " " " " |
| 1219 | 3 10.13 | 1.50 | 7.54 | 16.8 | 452.5 | 40.6 | 1.62 | -46 | Clear, no odor |
| 1221 | 4 11.75 | 2.50 | 7.60 | 17.9 | 456.2 | 23.2 | 2.49 | -42 | " " " |
| 1223 | 5 12.98 | 3.50 | 7.65 | 17.2 | 463.6 | 30.2 | 1.74 | -29 | " " " |
| 1226 | 6 13.44 | 4.50 | 7.56 | 16.2 | 463.7 | 39.7 | 0.94 | -28 | " " " |
| 1228 | 7 14.11 | 5.00 | 7.52 | 16.8 | 460.3 | 74.3 | 0.94 | -41 | " " " |
| 1230 | 8 15.45 | 6.00 | 7.52 | 15.8 | 453.6 | 58.4 | 0.68 | -41 | " " " |
| 1232 | 9 16.34 | 7.00 | 7.54 | 15.1 | 456.6 | 52.9 | 1.06 | -35 | " " " |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1235 | S1 17.07 | 8.00 | 7.52 | 14.8 | 456.7 | 60.4 | 1.00 | -35 | Clear, no odor |
| 1238 | S2 18.18 | 9.00 | 7.56 | 16.1 | 457.6 | 61.2 | 1.02 | -28 | " " " |

| Well No. MW-15 | | | Diameter (inches): 2" | | | Sample Date / Time: 6-14-22 / 1140 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 3.11 | | | DTW when sampled: TOP @ 17.10 | | | |
| DTW (static) (fbTOR): 14.96 | | | One Well Volume (gal): 0.51 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.07 | | | Total Volume Purged (gal): 3.50 | | | Purge Method: Low Flow | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1123 | 0 Initial | 0.00 | 6.61 | 18.6 | 888.0 | 79.7 | 0.83 | -124 | SL Turbid, no odor |
| 1126 | 1 15.47 | 0.50 | 6.59 | 17.3 | 847.6 | 366 | 0.65 | -119 | Turbid, no odor |
| 1129 | 2 16.90 | 1.00 | 6.61 | 15.8 | 821.4 | 22.5 | 0.83 | -116 | Clear, no odor |
| 1132 | 3 TOP | 1.50 | 6.63 | 15.4 | 787.2 | 9.36 | 0.90 | -117 | " " " |
| 1134 | 4 TOP | 2.00 | 6.65 | 15.0 | 760.9 | 10.9 | 1.11 | -112 | " " " |
| 1136 | 5 TOP | 2.50 | 6.65 | 14.8 | 752.5 | 15.1 | 1.13 | -109 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1140 | S1 TOP | 3.00 | 6.66 | 13.7 | 752.0 | 9.50 | 1.27 | -106 | Clear, no odor |
| 1143 | S2 TOP | 3.50 | 6.65 | 13.5 | 745.3 | 11.9 | 1.27 | -106 | " " " |

**REMARKS:** Top of pump at 17.10

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: Oregon Road Site
Location: Project No.:
Date: 6-14-22
Field Team: CEH

| Well No. MW-16 | | | Diameter (inches): 2" | | | Sample Date / Time: | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 8.92 | | | DTW when sampled: | | | |
| DTW (static) (fbTOR): 11.20 | | | One Well Volume (gal): 1.45 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 20.12 | | | Total Volume Purged (gal): | | | Purge Method: | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 0930 | 0 Initial | 0.00 | 6.53 | 18.8 | 783.4 | >1000 | 1.65 | 188 | Turbid, no odor |
| 0937 | 1 11.75 | 0.50 | 6.81 | 14.8 | 872.1 | >1000 | 0.56 | 34 | " " " |
| 0939 | 2 11.75 | 1.00 | 6.88 | 14.3 | 777.8 | >1000 | 0.80 | 16 | " " " |
| 0941 | 3 11.82 | 1.50 | 6.90 | 14.1 | 750.9 | >1000 | 0.64 | 14 | " " " |
| 0943 | 4 11.87 | 2.00 | 6.92 | 13.6 | 732.4 | >1000 | 0.64 | 8 | " " " |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 0945 | S1 11.93 | 3.00 | 6.93 | 13.8 | 738.2 | >1000 | 0.64 | 4 | Turbid, no odor |
| 0954 | S2 11.95 | 5.00 | 6.97 | 16.6 | 716.0 | >1000 | 0.78 | 0 | " " " |

| Well No. | | | Diameter (inches): | | | Sample Date / Time: | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): | | | DTW when sampled: | | | |
| DTW (static) (fbTOR): | | | One Well Volume (gal): | | | Purpose: ☐ Development ☐ Sample ☐ Purge & Sample | | | |
| Total Depth (fbTOR): | | | Total Volume Purged (gal): | | | Purge Method: | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| | 0 Initial | | | | | | | | |
| | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| | S1 | | | | | | | | |
| | S2 | | | | | | | | |

**REMARKS:** Took MS/MSD with MW-16

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

nKey Environmental Restoration LLC

# EQUIPMENT CALIBRATION LOG

**PROJECT INFORMATION:**

Project Name: **Oregon Street Site**

Date: 6-14-22

Project No.:

Client:

Instrument Source: [X] BM [ ] Rental

| METER TYPE | UNITS | TIME | MAKE/MODEL | SERIAL NUMBER | CAL. BY | STANDARD | POST CAL. READING | SETTINGS |
|---|---|---|---|---|---|---|---|---|
| [X] pH meter | units | 910 | Myron L Company Ultra Meter 6P | 6213516 [ ]<br>6243084 [X]<br>6212375 [ ]<br>6223973 [ ] | CEH | 4.00<br>7.00<br>10.01 | 4.04<br>7.02<br>10.04 | |
| [ ] Turbidity meter | NTU | | Hach 2100P or 2100Q Turbidimeter | 06120C020523 (P) [ ]<br>17110C062619 X<br>13120C030432 (Q) [ ] | CEH | < 0.4 or 10 for 2100 Q<br>20<br>100<br>800 | 9.21 | |
| [ ] Turbidity meter | NTU | | LaMotte 2020 | 6523-1816 (La) [ ] | | 0.0 NTU<br>1.0 NTU<br>10.0 NTU | | |
| [X] Sp. Cond. meter | uS<br>mS | 0910 | Myron L Company Ultra Meter 6P | 6213516 [ ]<br>6243084 [X]<br>6212375 [ ]<br>6223973 [ ] | CEH | 7000 mS @ 25 °C | 6999 | |
| [ ] PID | ppm | | MinRAE 2000 | | | open air zero<br>____ ppm Iso. Gas | | MIBK response factor = 1.0 |
| [X] Dissolved Oxygen | ppm | 0910 | HACH Model HQ30d | 080700023281 [ ]<br>100500041867 [X]<br>1402000100319 [ ] | CEH | 100% Satuartion | 100 % | |
| [ ] Particulate meter | mg/m$^3$ | | | | | zero air | | |
| [ ] Oxygen | % | | | | | open air | | |
| [ ] Hydrogen sulfide | ppm | | | | | open air | | |
| [ ] Carbon monoxide | ppm | | | | | open air | | |
| [ ] LEL | % | | | | | open air | | |
| [ ] Radiation Meter | uR/H | | | | | background area | | |

**ADDITIONAL REMARKS:**

**PREPARED BY:** CEH **DATE:** 6-14-22

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L2300450 |
| Client: | Turnkey Environmental Restoration, LLC<br>2558 Hamburg Turnpike<br>Suite 300<br>Buffalo, NY 14218 |
| ATTN: | Lori Riker |
| Phone: | (716) 856-0599 |
| Project Name: | OREGON ROAD SITE |
| Project Number: | 0311-020-001 |
| Report Date: | 01/31/23 |



Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L2300450-01 | MW-2R | WATER | OLEAN, NY | 01/03/23 12:10 | 01/04/23 |
| L2300450-02 | MW-5 | WATER | OLEAN, NY | 01/03/23 15:00 | 01/04/23 |
| L2300450-03 | MW-7 | WATER | OLEAN, NY | 01/03/23 14:50 | 01/04/23 |
| L2300450-04 | MW-8 | WATER | OLEAN, NY | 01/03/23 13:40 | 01/04/23 |
| L2300450-05 | MW-9 | WATER | OLEAN, NY | 01/03/23 12:50 | 01/04/23 |
| L2300450-06 | MW-12 | WATER | OLEAN, NY | 01/03/23 10:10 | 01/04/23 |
| L2300450-07 | MW-13 | WATER | OLEAN, NY | 01/03/23 12:30 | 01/04/23 |
| L2300450-08 | MW-15 | WATER | OLEAN, NY | 01/03/23 11:10 | 01/04/23 |
| L2300450-09 | MW-16 | WATER | OLEAN, NY | 01/03/23 10:40 | 01/04/23 |
| L2300450-10 | BLIND DUP | WATER | OLEAN, NY | 01/03/23 08:00 | 01/04/23 |
| L2300450-11 | FIELD BLANK | WATER | OLEAN, NY | 01/03/23 08:30 | 01/04/23 |
| L2300450-12 | TRIP BLANK | WATER | OLEAN, NY | 01/03/23 08:45 | 01/04/23 |

| | | | |
|---|---|---|---|
| **Project Name:** | OREGON ROAD SITE | **Lab Number:** | L2300450 |
| **Project Number:** | 0311-020-001 | **Report Date:** | 01/31/23 |

## 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, solids and tissues are reported on a dry 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:** | OREGON ROAD SITE | **Lab Number:** | L2300450 |
| **Project Number:** | 0311-020-001 | **Report Date:** | 01/31/23 |

**Case Narrative (continued)**

Report Submission

January 31, 2023: This final report includes the results of all requested analyses.

January 18, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2300450-04: The pH was greater than two; however, the sample was analyzed within the method required holding time.

L2300450-08D: Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

Perfluorinated Alkyl Acids by Isotope Dilution

L2300450-06, -09, -10, and WG1734847-3/-4: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2300450-06, -09, and WG1734847-3/-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2300450-10: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

Semivolatile Organics

The WG1730488-1 Method Blank, associated with L2300450-01 through -10, has TIC(s) detected. The results are qualified with a "B" for any associated samples that have detections of the same TIC(s).

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: 01/31/23

# ORGANICS

# VOLATILES

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 11:14
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01 Date Collected: 01/03/23 12:10

Client ID: MW-2R Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 4.6 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 0.49 | J | ug/l | 10 | 0.40 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01
Client ID: MW-2R
Sample Location: OLEAN, NY
Date Collected: 01/03/23 12:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 3.53 | J | ug/l | | | 1 |
| Unknown Benzene | 1.42 | J | ug/l | | | 1 |
| Unknown Cyclohexane | 1.09 | J | ug/l | | | 1 |
| Cyclohexane, 1,1-dimethyl- | 1.02 | NJ | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 101 | | 70-130 |
| 4-Bromofluorobenzene | 115 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 01/03/23 15:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 11:40
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02 Date Collected: 01/03/23 15:00

Client ID: MW-5 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | | |
|---|---|---|---|---|
| Total TIC Compounds | 1.41 | J | ug/l | 1 |
| Unknown | 1.41 | J | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02 Date Collected: 01/03/23 15:00

Client ID: MW-5 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 01/03/23 14:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 12:06
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03 Date Collected: 01/03/23 14:50

Client ID: MW-7 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.6 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | |
|---|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03 Date Collected: 01/03/23 14:50

Client ID: MW-7 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 113 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 01/03/23 13:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 12:31
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04 Date Collected: 01/03/23 13:40

Client ID: MW-8 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 4.1 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | | |
|---|---|---|---|---|
| Total TIC Compounds | 1.20 | J | ug/l | 1 |
| Unknown | 1.20 | J | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04 Date Collected: 01/03/23 13:40

Client ID: MW-8 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 12:57
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05 Date Collected: 01/03/23 12:50

Client ID: MW-9 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 1.5 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | |
|---|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05 Date Collected: 01/03/23 12:50

Client ID: MW-9 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 103 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 13:23
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06 Date Collected: 01/03/23 10:10

Client ID: MW-12 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06 Date Collected: 01/03/23 10:10

Client ID: MW-12 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 115 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:30
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 13:49
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07 Date Collected: 01/03/23 12:30

Client ID: MW-13 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.5 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | | |
|---|---|---|---|---|
| Total TIC Compounds | 1.38 | J | ug/l | 1 |
| Unknown | 1.38 | J | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07 Date Collected: 01/03/23 12:30

Client ID: MW-13 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 D2
Client ID: MW-15
Sample Location: OLEAN, NY
Date Collected: 01/03/23 11:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 23:17
Analyst: MJV

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Acetone | 230 | | ug/l | 50 | 15. | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 D
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 01/03/23 11:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 14:15
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,1-Dichloroethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Chloroform | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Carbon tetrachloride | ND | | ug/l | 1.2 | 0.34 | 2.5 |
| 1,2-Dichloropropane | ND | | ug/l | 2.5 | 0.34 | 2.5 |
| Dibromochloromethane | ND | | ug/l | 1.2 | 0.37 | 2.5 |
| 1,1,2-Trichloroethane | ND | | ug/l | 3.8 | 1.2 | 2.5 |
| Tetrachloroethene | ND | | ug/l | 1.2 | 0.45 | 2.5 |
| Chlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Trichlorofluoromethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2-Dichloroethane | ND | | ug/l | 1.2 | 0.33 | 2.5 |
| 1,1,1-Trichloroethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Bromodichloromethane | ND | | ug/l | 1.2 | 0.48 | 2.5 |
| trans-1,3-Dichloropropene | ND | | ug/l | 1.2 | 0.41 | 2.5 |
| cis-1,3-Dichloropropene | ND | | ug/l | 1.2 | 0.36 | 2.5 |
| Bromoform | ND | | ug/l | 5.0 | 1.6 | 2.5 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.2 | 0.42 | 2.5 |
| Benzene | ND | | ug/l | 1.2 | 0.40 | 2.5 |
| Toluene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Ethylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Chloromethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Bromomethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Vinyl chloride | ND | | ug/l | 2.5 | 0.18 | 2.5 |
| Chloroethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,1-Dichloroethene | ND | | ug/l | 1.2 | 0.42 | 2.5 |
| trans-1,2-Dichloroethene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Trichloroethene | ND | | ug/l | 1.2 | 0.44 | 2.5 |
| 1,2-Dichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 D Date Collected: 01/03/23 11:10
Client ID: MW-15 Date Received: 01/04/23
Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,4-Dichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Methyl tert butyl ether | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| p/m-Xylene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| o-Xylene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| cis-1,2-Dichloroethene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Styrene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Dichlorodifluoromethane | ND | | ug/l | 12 | 2.5 | 2.5 |
| Acetone | 750 | E | ug/l | 12 | 3.6 | 2.5 |
| Carbon disulfide | ND | | ug/l | 12 | 2.5 | 2.5 |
| 2-Butanone | ND | | ug/l | 12 | 4.8 | 2.5 |
| 4-Methyl-2-pentanone | ND | | ug/l | 12 | 2.5 | 2.5 |
| 2-Hexanone | ND | | ug/l | 12 | 2.5 | 2.5 |
| Bromochloromethane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2-Dibromoethane | ND | | ug/l | 5.0 | 1.6 | 2.5 |
| n-Butylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| sec-Butylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Isopropylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| p-Isopropyltoluene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| n-Propylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Methyl Acetate | ND | | ug/l | 5.0 | 0.58 | 2.5 |
| Cyclohexane | ND | | ug/l | 25 | 0.68 | 2.5 |
| 1,4-Dioxane | ND | | ug/l | 620 | 150 | 2.5 |
| Freon-113 | ND | | ug/l | 6.2 | 1.8 | 2.5 |
| Methyl cyclohexane | ND | | ug/l | 25 | 0.99 | 2.5 |

| Tentatively Identified Compounds | | | |
|---|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l | 2.5 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 D
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 01/03/23 11:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 115 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 14:41
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09 Date Collected: 01/03/23 10:40

Client ID: MW-16 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |
| **Tentatively Identified Compounds** | | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09 Date Collected: 01/03/23 10:40

Client ID: MW-16 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 103 | | 70-130 |
| 4-Bromofluorobenzene | 114 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 15:07
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10 Date Collected: 01/03/23 08:00

Client ID: BLIND DUP Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | |
|---|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10 Date Collected: 01/03/23 08:00

Client ID: BLIND DUP Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 113 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-12
Client ID: TRIP BLANK
Sample Location: OLEAN, NY
Date Collected: 01/03/23 08:45
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/06/23 09:56
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-12 Date Collected: 01/03/23 08:45

Client ID: TRIP BLANK Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Volatile Organics by GC/MS - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | 2.6 | J | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Tentatively Identified Compounds | | | |
|---|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-12 Date Collected: 01/03/23 08:45

Client ID: TRIP BLANK Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 113 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/06/23 09:30
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10,12 Batch: WG1731430-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/06/23 09:30
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10,12 Batch: WG1731430-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/06/23 09:30
Analyst: PID

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10,12 Batch: WG1731430-5 | | | | | |
| Tentatively Identified Compounds | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 113 | | 70-130 |
| Dibromofluoromethane | 98 | | 70-130 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/06/23 17:29
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1731431-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/06/23 17:29
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1731431-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| n-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| sec-Butylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| p-Isopropyltoluene | ND | | ug/l | 2.5 | 0.70 |
| n-Propylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/06/23 17:29
Analyst: LAC

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1731431-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 96 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 Batch: WG1731430-3 WG1731430-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chloroform | 100 | | 100 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 100 | | 100 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 98 | | 99 | | 70-130 | 1 | | 20 |
| Tetrachloroethene | 97 | | 96 | | 70-130 | 1 | | 20 |
| Chlorobenzene | 96 | | 97 | | 75-130 | 1 | | 20 |
| Trichlorofluoromethane | 83 | | 85 | | 62-150 | 2 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 110 | | 110 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 99 | | 100 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Bromoform | 94 | | 98 | | 54-136 | 4 | | 20 |
| 1,1,2,2-Tetrachloroethane | 97 | | 100 | | 67-130 | 3 | | 20 |
| Benzene | 98 | | 97 | | 70-130 | 1 | | 20 |
| Toluene | 99 | | 99 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 97 | | 98 | | 70-130 | 1 | | 20 |
| Chloromethane | 120 | | 120 | | 64-130 | 0 | | 20 |
| Bromomethane | 46 | | 49 | | 39-139 | 6 | | 20 |
| Vinyl chloride | 100 | | 100 | | 55-140 | 0 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 Batch: WG1731430-3 WG1731430-4 | | | | | | | | |
| Chloroethane | 85 | | 87 | | 55-138 | 2 | | 20 |
| 1,1-Dichloroethene | 78 | | 81 | | 61-145 | 4 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 94 | | 95 | | 70-130 | 1 | | 20 |
| 1,3-Dichlorobenzene | 95 | | 96 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 91 | | 93 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 94 | | 98 | | 63-130 | 4 | | 20 |
| p/m-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| o-Xylene | 90 | | 90 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Styrene | 80 | | 85 | | 70-130 | 6 | | 20 |
| Dichlorodifluoromethane | 130 | | 130 | | 36-147 | 0 | | 20 |
| Acetone | 110 | | 120 | | 58-148 | 9 | | 20 |
| Carbon disulfide | 77 | | 78 | | 51-130 | 1 | | 20 |
| 2-Butanone | 120 | | 110 | | 63-138 | 9 | | 20 |
| 4-Methyl-2-pentanone | 90 | | 96 | | 59-130 | 6 | | 20 |
| 2-Hexanone | 97 | | 100 | | 57-130 | 3 | | 20 |
| Bromochloromethane | 96 | | 98 | | 70-130 | 2 | | 20 |
| 1,2-Dibromoethane | 95 | | 98 | | 70-130 | 3 | | 20 |
| n-Butylbenzene | 100 | | 100 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 81 | | 89 | | 41-144 | 9 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 Batch: WG1731430-3 WG1731430-4 | | | | | | | | |
| Isopropylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 99 | | 100 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 100 | | 100 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 87 | | 96 | | 70-130 | 10 | | 20 |
| 1,2,4-Trichlorobenzene | 92 | | 96 | | 70-130 | 4 | | 20 |
| 1,3,5-Trimethylbenzene | 98 | | 99 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 99 | | 100 | | 70-130 | 1 | | 20 |
| Methyl Acetate | 110 | | 120 | | 70-130 | 9 | | 20 |
| Cyclohexane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 92 | | 106 | | 56-162 | 14 | | 20 |
| Freon-113 | 81 | | 83 | | 70-130 | 2 | | 20 |
| Methyl cyclohexane | 100 | | 100 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 105 | | 70-130 |
| Toluene-d8 | 101 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 108 | | 110 | | 70-130 |
| Dibromofluoromethane | 99 | | 100 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1731431-3 WG1731431-4 | | | | | | | | |
| Methylene chloride | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chloroform | 96 | | 99 | | 70-130 | 3 | | 20 |
| Carbon tetrachloride | 97 | | 95 | | 63-132 | 2 | | 20 |
| 1,2-Dichloropropane | 94 | | 92 | | 70-130 | 2 | | 20 |
| Dibromochloromethane | 81 | | 80 | | 63-130 | 1 | | 20 |
| 1,1,2-Trichloroethane | 91 | | 88 | | 70-130 | 3 | | 20 |
| Tetrachloroethene | 98 | | 94 | | 70-130 | 4 | | 20 |
| Chlorobenzene | 99 | | 94 | | 75-130 | 5 | | 20 |
| Trichlorofluoromethane | 100 | | 100 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 95 | | 97 | | 70-130 | 2 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | 89 | | 88 | | 67-130 | 1 | | 20 |
| trans-1,3-Dichloropropene | 74 | | 73 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | 84 | | 83 | | 70-130 | 1 | | 20 |
| Bromoform | 78 | | 82 | | 54-136 | 5 | | 20 |
| 1,1,2,2-Tetrachloroethane | 89 | | 92 | | 67-130 | 3 | | 20 |
| Benzene | 97 | | 96 | | 70-130 | 1 | | 20 |
| Toluene | 97 | | 93 | | 70-130 | 4 | | 20 |
| Ethylbenzene | 98 | | 97 | | 70-130 | 1 | | 20 |
| Chloromethane | 88 | | 88 | | 64-130 | 0 | | 20 |
| Bromomethane | 87 | | 90 | | 39-139 | 3 | | 20 |
| Vinyl chloride | 97 | | 95 | | 55-140 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1731431-3 WG1731431-4 | | | | | | | | |
| Chloroethane | 100 | | 100 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | 100 | | 100 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 96 | | 96 | | 70-130 | 0 | | 20 |
| Trichloroethene | 90 | | 91 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | 96 | | 98 | | 70-130 | 2 | | 20 |
| 1,3-Dichlorobenzene | 98 | | 97 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 96 | | 95 | | 70-130 | 1 | | 20 |
| Methyl tert butyl ether | 86 | | 86 | | 63-130 | 0 | | 20 |
| p/m-Xylene | 100 | | 95 | | 70-130 | 5 | | 20 |
| o-Xylene | 100 | | 95 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 97 | | 93 | | 70-130 | 4 | | 20 |
| Styrene | 100 | | 95 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 99 | | 98 | | 36-147 | 1 | | 20 |
| Acetone | 110 | | 99 | | 58-148 | 11 | | 20 |
| Carbon disulfide | 96 | | 95 | | 51-130 | 1 | | 20 |
| 2-Butanone | 70 | | 71 | | 63-138 | 1 | | 20 |
| 4-Methyl-2-pentanone | 74 | | 79 | | 59-130 | 7 | | 20 |
| 2-Hexanone | 84 | | 82 | | 57-130 | 2 | | 20 |
| Bromochloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | 87 | | 87 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 96 | | 96 | | 53-136 | 0 | | 20 |
| sec-Butylbenzene | 97 | | 98 | | 70-130 | 1 | | 20 |
| 1,2-Dibromo-3-chloropropane | 73 | | 72 | | 41-144 | 1 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1731431-3 WG1731431-4 | | | | | | | | |
| Isopropylbenzene | 97 | | 97 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 94 | | 95 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 98 | | 98 | | 69-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 93 | | 94 | | 70-130 | 1 | | 20 |
| 1,2,4-Trichlorobenzene | 95 | | 93 | | 70-130 | 2 | | 20 |
| 1,3,5-Trimethylbenzene | 91 | | 92 | | 64-130 | 1 | | 20 |
| 1,2,4-Trimethylbenzene | 90 | | 92 | | 70-130 | 2 | | 20 |
| Methyl Acetate | 80 | | 89 | | 70-130 | 11 | | 20 |
| Cyclohexane | 96 | | 98 | | 70-130 | 2 | | 20 |
| 1,4-Dioxane | 80 | | 86 | | 56-162 | 7 | | 20 |
| Freon-113 | 110 | | 100 | | 70-130 | 10 | | 20 |
| Methyl cyclohexane | 97 | | 98 | | 70-130 | 1 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | | 99 | | 70-130 |
| Toluene-d8 | 100 | | 98 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 99 | | 70-130 |
| Dibromofluoromethane | 105 | | 99 | | 70-130 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG1731430-6 WG1731430-7 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| Methylene chloride | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | ND | 10 | 12 | 120 | | 12 | 120 | | 70-130 | 0 | | 20 |
| Chloroform | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | ND | 10 | 12 | 120 | | 12 | 120 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | ND | 10 | 10 | 100 | | 10 | 100 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | ND | 10 | 8.2 | 82 | | 8.3 | 83 | | 70-130 | 1 | | 20 |
| Chlorobenzene | ND | 10 | 7.8 | 78 | | 7.8 | 78 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | ND | 10 | 9.3 | 93 | | 9.3 | 93 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | ND | 10 | 12 | 120 | | 12 | 120 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | ND | 10 | 12 | 120 | | 12 | 120 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | ND | 10 | 11 | 110 | | 11 | 110 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | ND | 10 | 9.5 | 95 | | 9.5 | 95 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | ND | 10 | 9.7 | 97 | | 9.7 | 97 | | 70-130 | 0 | | 20 |
| Bromoform | ND | 10 | 9.4 | 94 | | 9.9 | 99 | | 54-136 | 5 | | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 10 | 9.9 | 99 | | 10 | 100 | | 67-130 | 1 | | 20 |
| Benzene | ND | 10 | 9.7 | 97 | | 9.4 | 94 | | 70-130 | 3 | | 20 |
| Toluene | ND | 10 | 8.7 | 87 | | 8.6 | 86 | | 70-130 | 1 | | 20 |
| Ethylbenzene | ND | 10 | 8.0 | 80 | | 8.2 | 82 | | 70-130 | 2 | | 20 |
| Chloromethane | ND | 10 | 11 | 110 | | 12 | 120 | | 64-130 | 9 | | 20 |
| Bromomethane | ND | 10 | 2.8 | **28** | Q | 3.8 | **38** | Q | 39-139 | **30** | Q | 20 |
| Vinyl chloride | ND | 10 | 11 | 110 | | 11 | 110 | | 55-140 | 0 | | 20 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG1731430-6 WG1731430-7 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| Chloroethane | ND | 10 | 9.7 | 97 | | 9.6 | 96 | | 55-138 | 1 | | 20 |
| 1,1-Dichloroethene | ND | 10 | 8.7 | 87 | | 8.5 | 85 | | 61-145 | 2 | | 20 |
| trans-1,2-Dichloroethene | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Trichloroethene | ND | 10 | 9.7 | 97 | | 9.6 | 96 | | 70-130 | 1 | | 20 |
| 1,2-Dichlorobenzene | ND | 10 | 6.4 | **64** | Q | 7.2 | 72 | | 70-130 | 12 | | 20 |
| 1,3-Dichlorobenzene | ND | 10 | 6.2 | **62** | Q | 7.1 | 71 | | 70-130 | 14 | | 20 |
| 1,4-Dichlorobenzene | ND | 10 | 6.1 | **61** | Q | 6.7 | **67** | Q | 70-130 | 9 | | 20 |
| Methyl tert butyl ether | ND | 10 | 10 | 100 | | 11 | 110 | | 63-130 | 10 | | 20 |
| p/m-Xylene | ND | 20 | 15 | 75 | | 16 | 80 | | 70-130 | 6 | | 20 |
| o-Xylene | ND | 20 | 15 | 75 | | 15 | 75 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Styrene | ND | 20 | 12 | **60** | Q | 12 | **60** | Q | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | ND | 10 | 15 | **150** | Q | 14 | 140 | | 36-147 | 7 | | 20 |
| Acetone | ND | 10 | 12 | 120 | | 12 | 120 | | 58-148 | 0 | | 20 |
| Carbon disulfide | ND | 10 | 8.4 | 84 | | 8.2 | 82 | | 51-130 | 2 | | 20 |
| 2-Butanone | ND | 10 | 13 | 130 | | 13 | 130 | | 63-138 | 0 | | 20 |
| 4-Methyl-2-pentanone | ND | 10 | 9.8 | 98 | | 10 | 100 | | 59-130 | 2 | | 20 |
| 2-Hexanone | ND | 10 | 10 | 100 | | 11 | 110 | | 57-130 | 10 | | 20 |
| Bromochloromethane | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | ND | 10 | 9.5 | 95 | | 9.9 | 99 | | 70-130 | 4 | | 20 |
| n-Butylbenzene | ND | 10 | 5.7 | 57 | | 7.6 | 76 | | 53-136 | **29** | Q | 20 |
| sec-Butylbenzene | ND | 10 | 8.2 | 82 | | 8.7 | 87 | | 70-130 | 6 | | 20 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 7.5 | 75 | | 8.5 | 85 | | 41-144 | 13 | | 20 |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG1731430-6 WG1731430-7 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| Isopropylbenzene | ND | 10 | 8.4 | 84 | | 8.7 | 87 | | 70-130 | 4 | | 20 |
| p-Isopropyltoluene | ND | 10 | 7.5 | 75 | | 8.1 | 81 | | 70-130 | 8 | | 20 |
| n-Propylbenzene | ND | 10 | 7.3 | 73 | | 8.0 | 80 | | 69-130 | 9 | | 20 |
| 1,2,3-Trichlorobenzene | ND | 10 | 4.7 | **47** | Q | 6.8 | **68** | Q | 70-130 | **37** | Q | 20 |
| 1,2,4-Trichlorobenzene | ND | 10 | 3.8 | **38** | Q | 6.3 | **63** | Q | 70-130 | **50** | Q | 20 |
| 1,3,5-Trimethylbenzene | ND | 10 | 8.1 | 81 | | 8.5 | 85 | | 64-130 | 5 | | 20 |
| 1,2,4-Trimethylbenzene | ND | 10 | 7.3 | 73 | | 7.9 | 79 | | 70-130 | 8 | | 20 |
| Methyl Acetate | ND | 10 | 12 | 120 | | 13 | 130 | | 70-130 | 8 | | 20 |
| Cyclohexane | ND | 10 | 12 | 120 | | 12 | 120 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | ND | 500 | 370 | 74 | | 480 | 96 | | 56-162 | **26** | Q | 20 |
| Freon-113 | ND | 10 | 8.9 | 89 | | 8.8 | 88 | | 70-130 | 1 | | 20 |
| Methyl cyclohexane | ND | 10 | 9.7J | 97 | | 9.4J | 94 | | 70-130 | 3 | | 20 |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | | 107 | | 70-130 |
| 4-Bromofluorobenzene | 112 | | 112 | | 70-130 |
| Dibromofluoromethane | 100 | | 100 | | 70-130 |
| Toluene-d8 | 101 | | 101 | | 70-130 |

# SEMIVOLATILES

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 12:49
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01
Client ID: MW-2R
Sample Location: OLEAN, NY
Date Collected: 01/03/23 12:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01 Date Collected: 01/03/23 12:10

Client ID: MW-2R Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 73.3 | J | ug/l | | | 1 |
| Unknown | 3.74 | JB | ug/l | | | 1 |
| Unknown | 4.73 | J | ug/l | | | 1 |
| Unknown | 3.42 | J | ug/l | | | 1 |
| Unknown | 3.13 | J | ug/l | | | 1 |
| Unknown | 3.85 | J | ug/l | | | 1 |
| Unknown | 4.18 | J | ug/l | | | 1 |
| Unknown | 3.42 | J | ug/l | | | 1 |
| Unknown | 5.34 | JB | ug/l | | | 1 |
| Unknown | 3.49 | J | ug/l | | | 1 |
| Unknown | 4.44 | J | ug/l | | | 1 |
| Unknown | 4.36 | J | ug/l | | | 1 |
| Unknown Organic Acid | 17.1 | JB | ug/l | | | 1 |
| Unknown Siloxane | 3.78 | J | ug/l | | | 1 |
| Unknown Siloxane | 3.13 | J | ug/l | | | 1 |
| Unknown Siloxane | 5.16 | J | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 50 | | 21-120 |
| Phenol-d6 | 41 | | 10-120 |
| Nitrobenzene-d5 | 74 | | 23-120 |
| 2-Fluorobiphenyl | 66 | | 15-120 |
| 2,4,6-Tribromophenol | 76 | | 10-120 |
| 4-Terphenyl-d14 | 75 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01
Client ID: MW-2R
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 20:51
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | 0.05 | J | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | 0.04 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | 0.03 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | 0.03 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | 0.05 | J | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | 0.03 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | 0.03 | J | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.11 | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | 0.09 | J | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-01
Client ID: MW-2R
Sample Location: OLEAN, NY
Date Collected: 01/03/23 12:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 49 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | 118 | | 23-120 |
| 2-Fluorobiphenyl | 76 | | 15-120 |
| 2,4,6-Tribromophenol | 112 | | 10-120 |
| 4-Terphenyl-d14 | 94 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 01/03/23 15:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 13:13
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02 Date Collected: 01/03/23 15:00

Client ID: MW-5 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 01/03/23 15:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 193 | J | ug/l | | | 1 |
| Unknown | 3.24 | JB | ug/l | | | 1 |
| Unknown | 2.11 | J | ug/l | | | 1 |
| Unknown | 5.53 | JB | ug/l | | | 1 |
| Unknown | 3.31 | JB | ug/l | | | 1 |
| Unknown | 9.82 | J | ug/l | | | 1 |
| Unknown | 4.04 | J | ug/l | | | 1 |
| Unknown | 2.22 | J | ug/l | | | 1 |
| Unknown | 5.24 | J | ug/l | | | 1 |
| Unknown | 3.02 | J | ug/l | | | 1 |
| Unknown | 2.51 | J | ug/l | | | 1 |
| Unknown | 3.20 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 11.1 | J | ug/l | | | 1 |
| Unknown Organic Acid | 3.09 | J | ug/l | | | 1 |
| Unknown Organic Acid | 43.4 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 91.3 | JB | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 51 | | 21-120 |
| Phenol-d6 | 39 | | 10-120 |
| Nitrobenzene-d5 | 79 | | 23-120 |
| 2-Fluorobiphenyl | 71 | | 15-120 |
| 2,4,6-Tribromophenol | 83 | | 10-120 |
| 4-Terphenyl-d14 | 72 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02
Client ID: MW-5
Sample Location: OLEAN, NY

Date Collected: 01/03/23 15:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 21:07
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-02
Client ID: MW-5
Sample Location: OLEAN, NY
Date Collected: 01/03/23 15:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 55 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | **121** | Q | 23-120 |
| 2-Fluorobiphenyl | 78 | | 15-120 |
| 2,4,6-Tribromophenol | **144** | Q | 10-120 |
| 4-Terphenyl-d14 | 92 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 01/03/23 14:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 13:36
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03 Date Collected: 01/03/23 14:50

Client ID: MW-7 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03 Date Collected: 01/03/23 14:50

Client ID: MW-7 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 48.0 | J | ug/l | | | 1 |
| Unknown | 3.16 | JB | ug/l | | | 1 |
| Unknown | 2.98 | J | ug/l | | | 1 |
| Unknown | 1.64 | J | ug/l | | | 1 |
| Unknown | 1.71 | J | ug/l | | | 1 |
| Unknown | 1.49 | J | ug/l | | | 1 |
| Unknown | 1.96 | JB | ug/l | | | 1 |
| Unknown | 2.69 | JB | ug/l | | | 1 |
| Unknown | 1.67 | J | ug/l | | | 1 |
| Unknown | 1.53 | J | ug/l | | | 1 |
| Unknown | 6.87 | JB | ug/l | | | 1 |
| Unknown | 1.96 | J | ug/l | | | 1 |
| Unknown | 2.33 | J | ug/l | | | 1 |
| Unknown | 3.20 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 14.8 | JB | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 51 | | 21-120 |
| Phenol-d6 | 44 | | 10-120 |
| Nitrobenzene-d5 | 79 | | 23-120 |
| 2-Fluorobiphenyl | 65 | | 15-120 |
| 2,4,6-Tribromophenol | 71 | | 10-120 |
| 4-Terphenyl-d14 | 73 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03
Client ID: MW-7
Sample Location: OLEAN, NY

Date Collected: 01/03/23 14:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 21:24
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-03
Client ID: MW-7
Sample Location: OLEAN, NY
Date Collected: 01/03/23 14:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 56 | | 21-120 |
| Phenol-d6 | 51 | | 10-120 |
| Nitrobenzene-d5 | 115 | | 23-120 |
| 2-Fluorobiphenyl | 75 | | 15-120 |
| 2,4,6-Tribromophenol | **141** | Q | 10-120 |
| 4-Terphenyl-d14 | 93 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 01/03/23 13:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 14:00
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04 Date Collected: 01/03/23 13:40

Client ID: MW-8 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 61.9 | J | ug/l | | | 1 |
| Unknown | 3.24 | JB | ug/l | | | 1 |
| Unknown | 1.45 | JB | ug/l | | | 1 |
| Unknown | 1.53 | J | ug/l | | | 1 |
| Unknown | 3.31 | J | ug/l | | | 1 |
| Unknown | 1.89 | J | ug/l | | | 1 |
| Unknown | 2.36 | J | ug/l | | | 1 |
| Unknown | 1.89 | J | ug/l | | | 1 |
| Unknown | 5.89 | JB | ug/l | | | 1 |
| Unknown Amide | 2.44 | J | ug/l | | | 1 |
| Unknown Organic Acid | 3.27 | J | ug/l | | | 1 |
| Unknown Organic Acid | 12.4 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 22.2 | JB | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04 Date Collected: 01/03/23 13:40

Client ID: MW-8 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 49 | | 21-120 |
| Phenol-d6 | 41 | | 10-120 |
| Nitrobenzene-d5 | 77 | | 23-120 |
| 2-Fluorobiphenyl | 65 | | 15-120 |
| 2,4,6-Tribromophenol | 78 | | 10-120 |
| 4-Terphenyl-d14 | 69 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04
Client ID: MW-8
Sample Location: OLEAN, NY

Date Collected: 01/03/23 13:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/08/23 16:18
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | 0.04 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-04
Client ID: MW-8
Sample Location: OLEAN, NY
Date Collected: 01/03/23 13:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 57 | | 21-120 |
| Phenol-d6 | 50 | | 10-120 |
| Nitrobenzene-d5 | 100 | | 23-120 |
| 2-Fluorobiphenyl | 74 | | 15-120 |
| 2,4,6-Tribromophenol | 82 | | 10-120 |
| 4-Terphenyl-d14 | 82 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 14:24
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05 Date Collected: 01/03/23 12:50

Client ID: MW-9 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 31.1 | J | ug/l | | | 1 |
| Cyclic Octaatomic Sulfur | 2.94 | NJ | ug/l | | | 1 |
| Unknown | 3.20 | JB | ug/l | | | 1 |
| Unknown | 1.93 | JB | ug/l | | | 1 |
| Unknown | 1.82 | JB | ug/l | | | 1 |
| Unknown | 1.71 | J | ug/l | | | 1 |
| Unknown | 1.71 | J | ug/l | | | 1 |
| Unknown | 2.29 | JB | ug/l | | | 1 |
| Unknown | 2.73 | J | ug/l | | | 1 |
| Unknown Organic Acid | 12.8 | JB | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE
**Lab Number:** L2300450
**Project Number:** 0311-020-001
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05
Client ID: MW-9
Sample Location: OLEAN, NY
Date Collected: 01/03/23 12:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 49 | | 21-120 |
| Phenol-d6 | 43 | | 10-120 |
| Nitrobenzene-d5 | 71 | | 23-120 |
| 2-Fluorobiphenyl | 65 | | 15-120 |
| 2,4,6-Tribromophenol | 69 | | 10-120 |
| 4-Terphenyl-d14 | 69 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05
Client ID: MW-9
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:50
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/08/23 16:34
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | 0.04 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-05 Date Collected: 01/03/23 12:50

Client ID: MW-9 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 47 | | 21-120 |
| Phenol-d6 | 47 | | 10-120 |
| Nitrobenzene-d5 | 99 | | 23-120 |
| 2-Fluorobiphenyl | 73 | | 15-120 |
| 2,4,6-Tribromophenol | 51 | | 10-120 |
| 4-Terphenyl-d14 | 78 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 14:47
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06 Date Collected: 01/03/23 10:10

Client ID: MW-12 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | |
|---|---|---|---|---|
| Total TIC Compounds | 31.8 | J | ug/l | 1 |
| Unknown | 2.94 | JB | ug/l | 1 |
| Unknown | 1.60 | J | ug/l | 1 |
| Unknown | 2.22 | JB | ug/l | 1 |
| Unknown | 2.14 | JB | ug/l | 1 |
| Unknown | 2.65 | J | ug/l | 1 |
| Unknown | 2.80 | JB | ug/l | 1 |
| Unknown Amide | 2.36 | J | ug/l | 1 |
| Unknown Organic Acid | 15.1 | JB | ug/l | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06 Date Collected: 01/03/23 10:10

Client ID: MW-12 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 50 | | 21-120 |
| Phenol-d6 | 39 | | 10-120 |
| Nitrobenzene-d5 | 76 | | 23-120 |
| 2-Fluorobiphenyl | 59 | | 15-120 |
| 2,4,6-Tribromophenol | 71 | | 10-120 |
| 4-Terphenyl-d14 | 51 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 20:34
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06 Date Collected: 01/03/23 10:10

Client ID: MW-12 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 50 | | 21-120 |
| Phenol-d6 | 45 | | 10-120 |
| Nitrobenzene-d5 | 113 | | 23-120 |
| 2-Fluorobiphenyl | 69 | | 15-120 |
| 2,4,6-Tribromophenol | 112 | | 10-120 |
| 4-Terphenyl-d14 | 64 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06
Client ID: MW-12
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/21/23 05:32
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 74.0 | | ng/l | 1.73 | 0.354 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 108 | | ng/l | 1.73 | 0.343 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 238 | | ng/l | 1.73 | 0.206 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 393 | | ng/l | 1.73 | 0.284 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 49.3 | | ng/l | 1.73 | 0.195 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 629 | | ng/l | 1.73 | 0.326 | 1 |
| Perfluorooctanoic Acid (PFOA) | 50.3 | | ng/l | 1.73 | 0.205 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.73 | 1.16 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 11.6 | | ng/l | 1.73 | 0.597 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.73 | 0.270 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 239 | | ng/l | 1.73 | 0.437 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.73 | 0.264 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.73 | 1.05 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.73 | 0.562 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.73 | 0.225 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.73 | 0.850 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.73 | 0.503 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.73 | 0.697 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.73 | 0.323 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.73 | 0.284 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.73 | 0.215 | 1 |
| PFOA/PFOS, Total | 289 | | ng/l | 1.73 | 0.205 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-06 Date Collected: 01/03/23 10:10

Client ID: MW-12 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 89 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 66 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 91 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 62 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 80 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 97 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 84 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | **197** | Q | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 71 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 80 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 75 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 162 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 65 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 89 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 35 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 65 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 77 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 67 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:30
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 15:57
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | 0.94 | J | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07 Date Collected: 01/03/23 12:30

Client ID: MW-13 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07
Client ID: MW-13
Sample Location: OLEAN, NY
Date Collected: 01/03/23 12:30
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 306 | J | ug/l | | | 1 |
| Cyclic Octaatomic Sulfur | 10.4 | NJ | ug/l | | | 1 |
| Unknown | 3.56 | JB | ug/l | | | 1 |
| Unknown | 19.8 | JB | ug/l | | | 1 |
| Unknown | 4.44 | J | ug/l | | | 1 |
| Unknown | 2.80 | J | ug/l | | | 1 |
| Unknown | 2.36 | J | ug/l | | | 1 |
| Unknown | 2.04 | J | ug/l | | | 1 |
| Unknown | 4.18 | J | ug/l | | | 1 |
| Unknown | 2.07 | J | ug/l | | | 1 |
| Unknown | 25.0 | J | ug/l | | | 1 |
| Unknown | 4.47 | J | ug/l | | | 1 |
| Unknown Organic Acid | 185 | J | ug/l | | | 1 |
| Unknown Organic Acid | 7.27 | J | ug/l | | | 1 |
| Unknown Organic Acid | 3.27 | J | ug/l | | | 1 |
| Unknown Organic Acid | 29.8 | JB | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 55 | | 21-120 |
| Phenol-d6 | 43 | | 10-120 |
| Nitrobenzene-d5 | 87 | | 23-120 |
| 2-Fluorobiphenyl | 73 | | 15-120 |
| 2,4,6-Tribromophenol | 87 | | 10-120 |
| 4-Terphenyl-d14 | 79 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07
Client ID: MW-13
Sample Location: OLEAN, NY

Date Collected: 01/03/23 12:30
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/08/23 16:50
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-07
Client ID: MW-13
Sample Location: OLEAN, NY
Date Collected: 01/03/23 12:30
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 63 | | 21-120 |
| Phenol-d6 | 55 | | 10-120 |
| Nitrobenzene-d5 | 113 | | 23-120 |
| 2-Fluorobiphenyl | 83 | | 15-120 |
| 2,4,6-Tribromophenol | 88 | | 10-120 |
| 4-Terphenyl-d14 | 87 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 01/03/23 11:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 16:21
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 Date Collected: 01/03/23 11:10

Client ID: MW-15 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 Date Collected: 01/03/23 11:10

Client ID: MW-15 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| **Tentatively Identified Compounds** | | | | | | |
| Total TIC Compounds | 120 | J | ug/l | | | 1 |
| Unknown | 3.09 | JB | ug/l | | | 1 |
| Unknown | 4.51 | J | ug/l | | | 1 |
| Unknown | 4.40 | J | ug/l | | | 1 |
| Unknown | 3.38 | J | ug/l | | | 1 |
| Unknown | 4.91 | J | ug/l | | | 1 |
| Unknown | 3.20 | J | ug/l | | | 1 |
| Unknown | 6.87 | J | ug/l | | | 1 |
| Unknown | 3.13 | J | ug/l | | | 1 |
| Unknown | 8.54 | J | ug/l | | | 1 |
| Unknown | 3.31 | J | ug/l | | | 1 |
| Unknown | 2.47 | JB | ug/l | | | 1 |
| Unknown | 2.22 | J | ug/l | | | 1 |
| Unknown | 2.18 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 25.3 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 42.7 | JB | ug/l | | | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 47 | | 21-120 |
| Phenol-d6 | 40 | | 10-120 |
| Nitrobenzene-d5 | 77 | | 23-120 |
| 2-Fluorobiphenyl | 66 | | 15-120 |
| 2,4,6-Tribromophenol | 90 | | 10-120 |
| 4-Terphenyl-d14 | 77 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08
Client ID: MW-15
Sample Location: OLEAN, NY

Date Collected: 01/03/23 11:10
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/08/23 17:07
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | 0.07 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-08 Date Collected: 01/03/23 11:10

Client ID: MW-15 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 54 | | 21-120 |
| Phenol-d6 | 49 | | 10-120 |
| Nitrobenzene-d5 | 97 | | 23-120 |
| 2-Fluorobiphenyl | 77 | | 15-120 |
| 2,4,6-Tribromophenol | 93 | | 10-120 |
| 4-Terphenyl-d14 | 86 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 16:44
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09
Client ID: MW-16
Sample Location: OLEAN, NY
Date Collected: 01/03/23 10:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 55.2 | J | ug/l | | | 1 |
| Unknown | 1.78 | J | ug/l | | | 1 |
| Unknown | 8.36 | J | ug/l | | | 1 |
| Unknown | 13.9 | JB | ug/l | | | 1 |
| Unknown Alcohol | 3.09 | JB | ug/l | | | 1 |
| Unknown Alkane | 1.96 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 10.1 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 16.0 | JB | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09 Date Collected: 01/03/23 10:40

Client ID: MW-16 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 54 | | 21-120 |
| Phenol-d6 | 44 | | 10-120 |
| Nitrobenzene-d5 | 84 | | 23-120 |
| 2-Fluorobiphenyl | 71 | | 15-120 |
| 2,4,6-Tribromophenol | 84 | | 10-120 |
| 4-Terphenyl-d14 | 81 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/08/23 17:23
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | 0.03 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | 0.02 | J | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | 0.01 | J | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Lab Number:** L2300450
**Project Number:** 0311-020-001
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09
Client ID: MW-16
Sample Location: OLEAN, NY
Date Collected: 01/03/23 10:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 57 | | 21-120 |
| Phenol-d6 | 53 | | 10-120 |
| Nitrobenzene-d5 | 112 | | 23-120 |
| 2-Fluorobiphenyl | 83 | | 15-120 |
| 2,4,6-Tribromophenol | 70 | | 10-120 |
| 4-Terphenyl-d14 | 87 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09
Client ID: MW-16
Sample Location: OLEAN, NY

Date Collected: 01/03/23 10:40
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/21/23 06:22
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 8.99 | | ng/l | 1.76 | 0.359 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 3.38 | | ng/l | 1.76 | 0.348 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 3.09 | | ng/l | 1.76 | 0.209 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 5.84 | | ng/l | 1.76 | 0.288 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 1.12 | J | ng/l | 1.76 | 0.198 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 32.6 | | ng/l | 1.76 | 0.331 | 1 |
| Perfluorooctanoic Acid (PFOA) | 1.88 | | ng/l | 1.76 | 0.208 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.76 | 1.17 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 1.37 | J | ng/l | 1.76 | 0.605 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.76 | 0.274 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 35.9 | | ng/l | 1.76 | 0.443 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.76 | 0.267 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.76 | 1.06 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.76 | 0.570 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.76 | 0.229 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.76 | 0.862 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.76 | 0.510 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.76 | 0.707 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.76 | 0.327 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.76 | 0.288 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.76 | 0.218 | 1 |
| PFOA/PFOS, Total | 37.8 | | ng/l | 1.76 | 0.208 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-09 Date Collected: 01/03/23 10:40

Client ID: MW-16 Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 87 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 90 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 97 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 74 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 79 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 101 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 86 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | **168** | Q | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 68 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 84 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 78 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 132 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 60 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 84 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 13 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 58 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 78 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 64 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 01/06/23 17:08
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 | 1 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 | 1 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 | 1 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 | 1 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 | 1 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 | 1 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 | 1 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 | 1 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 | 1 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 | 1 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 | 1 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 | 1 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 | 1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 | 1 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 | 1 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 | 1 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 | 1 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 | 1 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS - Westborough Lab** | | | | | | |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 | 1 |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 | 1 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 | 1 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 | 1 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 | 1 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 | 1 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 | 1 |
| Phenol | ND | | ug/l | 5.0 | 0.57 | 1 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 | 1 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 | 1 |
| Atrazine | ND | | ug/l | 10 | 0.76 | 1 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 | 1 |
| Caprolactam | ND | | ug/l | 10 | 3.3 | 1 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 | 1 |

| Tentatively Identified Compounds | | | | | | |
|---|---|---|---|---|---|---|
| Total TIC Compounds | 38.1 | J | ug/l | | | 1 |
| Unknown | 3.71 | JB | ug/l | | | 1 |
| Unknown | 4.22 | J | ug/l | | | 1 |
| Unknown | 1.93 | JB | ug/l | | | 1 |
| Unknown | 2.69 | JB | ug/l | | | 1 |
| Unknown Alkane | 2.07 | JB | ug/l | | | 1 |
| Unknown Ketone | 1.71 | J | ug/l | | | 1 |
| Unknown Organic Acid | 8.00 | JB | ug/l | | | 1 |
| Unknown Organic Acid | 13.8 | JB | ug/l | | | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

**SAMPLE RESULTS**

Lab ID: L2300450-10 Date Collected: 01/03/23 08:00

Client ID: BLIND DUP Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 56 | | 21-120 |
| Phenol-d6 | 49 | | 10-120 |
| Nitrobenzene-d5 | 88 | | 23-120 |
| 2-Fluorobiphenyl | 78 | | 15-120 |
| 2,4,6-Tribromophenol | 81 | | 10-120 |
| 4-Terphenyl-d14 | 83 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 01/08/23 17:39
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Semivolatile Organics by GC/MS-SIM - Westborough Lab** | | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 | 1 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 | 1 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 | 1 |
| Benzo(a)anthracene | 0.04 | J | ug/l | 0.10 | 0.02 | 1 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 | 1 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 | 1 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 | 1 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 | 1 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 | 1 |

**Project Name:** OREGON ROAD SITE
**Lab Number:** L2300450
**Project Number:** 0311-020-001
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY
Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab | | | | | | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 54 | | 21-120 |
| Phenol-d6 | 53 | | 10-120 |
| Nitrobenzene-d5 | 118 | | 23-120 |
| 2-Fluorobiphenyl | 86 | | 15-120 |
| 2,4,6-Tribromophenol | 56 | | 10-120 |
| 4-Terphenyl-d14 | 91 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/21/23 06:39
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 10.3 | | ng/l | 1.76 | 0.358 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 3.98 | | ng/l | 1.76 | 0.348 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 4.39 | | ng/l | 1.76 | 0.209 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 7.55 | | ng/l | 1.76 | 0.288 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 1.22 | J | ng/l | 1.76 | 0.198 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 46.6 | | ng/l | 1.76 | 0.330 | 1 |
| Perfluorooctanoic Acid (PFOA) | 2.40 | | ng/l | 1.76 | 0.207 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.76 | 1.17 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 1.71 | J | ng/l | 1.76 | 0.604 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.76 | 0.274 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 40.5 | | ng/l | 1.76 | 0.443 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.76 | 0.267 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.76 | 1.06 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.76 | 0.569 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.76 | 0.228 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.76 | 0.861 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.76 | 0.706 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.76 | 0.327 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.76 | 0.287 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.76 | 0.218 | 1 |
| PFOA/PFOS, Total | 42.9 | | ng/l | 1.76 | 0.207 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10 Date Collected: 01/03/23 08:00

Client ID: BLIND DUP Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 91 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 96 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 102 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 86 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 91 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 105 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 90 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 134 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 72 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 86 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 85 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 110 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 57 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 88 | | 55-137 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 58 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 79 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 67 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-10
Client ID: BLIND DUP
Sample Location: OLEAN, NY

Date Collected: 01/03/23 08:00
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/23/23 17:08
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.76 | 0.510 | 1 |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 63 | | 10-112 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-11
Client ID: FIELD BLANK
Sample Location: OLEAN, NY

Date Collected: 01/03/23 08:30
Date Received: 01/04/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/21/23 06:55
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab** | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 1.91 | 0.390 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 1.91 | 0.378 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.91 | 0.227 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.91 | 0.313 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.91 | 0.215 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.91 | 0.359 | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.91 | 0.226 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.91 | 1.27 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.91 | 0.657 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.91 | 0.298 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.91 | 0.482 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.91 | 0.290 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.91 | 1.16 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.91 | 0.619 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.91 | 0.248 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.91 | 0.936 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.91 | 0.554 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.91 | 0.768 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.91 | 0.355 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.91 | 0.313 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.91 | 0.237 | 1 |
| PFOA/PFOS, Total | ND | | ng/l | 1.91 | 0.226 | 1 |

**Project Name:** OREGON ROAD SITE **Lab Number:** L2300450

**Project Number:** 0311-020-001 **Report Date:** 01/31/23

## SAMPLE RESULTS

Lab ID: L2300450-11 Date Collected: 01/03/23 08:30

Client ID: FIELD BLANK Date Received: 01/04/23

Sample Location: OLEAN, NY Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 94 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 100 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 106 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 92 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 95 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 105 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 96 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 100 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 75 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 87 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 86 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 99 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 72 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 99 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 61 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 74 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 92 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 76 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/06/23 11:39
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1730488-1 | | | | | |
| Bis(2-chloroethyl)ether | ND | | ug/l | 2.0 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | | ug/l | 5.0 | 1.6 |
| 2,4-Dinitrotoluene | ND | | ug/l | 5.0 | 1.2 |
| 2,6-Dinitrotoluene | ND | | ug/l | 5.0 | 0.93 |
| 4-Chlorophenyl phenyl ether | ND | | ug/l | 2.0 | 0.49 |
| 4-Bromophenyl phenyl ether | ND | | ug/l | 2.0 | 0.38 |
| Bis(2-chloroisopropyl)ether | ND | | ug/l | 2.0 | 0.53 |
| Bis(2-chloroethoxy)methane | ND | | ug/l | 5.0 | 0.50 |
| Hexachlorocyclopentadiene | ND | | ug/l | 20 | 0.69 |
| Isophorone | ND | | ug/l | 5.0 | 1.2 |
| Nitrobenzene | ND | | ug/l | 2.0 | 0.77 |
| NDPA/DPA | ND | | ug/l | 2.0 | 0.42 |
| n-Nitrosodi-n-propylamine | ND | | ug/l | 5.0 | 0.64 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/l | 3.0 | 1.5 |
| Butyl benzyl phthalate | ND | | ug/l | 5.0 | 1.2 |
| Di-n-butylphthalate | ND | | ug/l | 5.0 | 0.39 |
| Di-n-octylphthalate | ND | | ug/l | 5.0 | 1.3 |
| Diethyl phthalate | ND | | ug/l | 5.0 | 0.38 |
| Dimethyl phthalate | ND | | ug/l | 5.0 | 1.8 |
| Biphenyl | ND | | ug/l | 2.0 | 0.46 |
| 4-Chloroaniline | ND | | ug/l | 5.0 | 1.1 |
| 2-Nitroaniline | ND | | ug/l | 5.0 | 0.50 |
| 3-Nitroaniline | ND | | ug/l | 5.0 | 0.81 |
| 4-Nitroaniline | ND | | ug/l | 5.0 | 0.80 |
| Dibenzofuran | ND | | ug/l | 2.0 | 0.50 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/l | 10 | 0.44 |
| Acetophenone | ND | | ug/l | 5.0 | 0.53 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 5.0 | 0.61 |
| p-Chloro-m-cresol | ND | | ug/l | 2.0 | 0.35 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/06/23 11:39
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1730488-1 | | | | | |
| 2-Chlorophenol | ND | | ug/l | 2.0 | 0.48 |
| 2,4-Dichlorophenol | ND | | ug/l | 5.0 | 0.41 |
| 2,4-Dimethylphenol | ND | | ug/l | 5.0 | 1.8 |
| 2-Nitrophenol | ND | | ug/l | 10 | 0.85 |
| 4-Nitrophenol | ND | | ug/l | 10 | 0.67 |
| 2,4-Dinitrophenol | ND | | ug/l | 20 | 6.6 |
| 4,6-Dinitro-o-cresol | ND | | ug/l | 10 | 1.8 |
| Phenol | ND | | ug/l | 5.0 | 0.57 |
| 2-Methylphenol | ND | | ug/l | 5.0 | 0.49 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 5.0 | 0.48 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 5.0 | 0.77 |
| Carbazole | ND | | ug/l | 2.0 | 0.49 |
| Atrazine | ND | | ug/l | 10 | 0.76 |
| Benzaldehyde | ND | | ug/l | 5.0 | 0.53 |
| Caprolactam | ND | | ug/l | 10 | 3.3 |
| 2,3,4,6-Tetrachlorophenol | ND | | ug/l | 5.0 | 0.84 |

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| Total TIC Compounds | 27.9 | J | ug/l |
| Unknown | 2.58 | J | ug/l |
| Unknown Organic Acid | 6.47 | J | ug/l |
| Unknown Organic Acid | 8.76 | J | ug/l |
| Unknown | 3.13 | J | ug/l |
| Unknown | 1.67 | J | ug/l |
| Unknown | 1.53 | J | ug/l |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/06/23 11:39
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:47

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1730488-1 | | | | | |
| Tentatively Identified Compounds | | | | | |
| Unknown | 1.82 | J | ug/l | | |
| Unknown | 1.93 | J | ug/l | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 56 | | 21-120 |
| Phenol-d6 | 52 | | 10-120 |
| Nitrobenzene-d5 | 77 | | 23-120 |
| 2-Fluorobiphenyl | 63 | | 15-120 |
| 2,4,6-Tribromophenol | 64 | | 10-120 |
| 4-Terphenyl-d14 | 70 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 19:45
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG1730491-1 | | | | | |
| Acenaphthene | ND | | ug/l | 0.10 | 0.01 |
| 2-Chloronaphthalene | ND | | ug/l | 0.20 | 0.02 |
| Fluoranthene | ND | | ug/l | 0.10 | 0.02 |
| Hexachlorobutadiene | ND | | ug/l | 0.50 | 0.05 |
| Naphthalene | ND | | ug/l | 0.10 | 0.05 |
| Benzo(a)anthracene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(a)pyrene | ND | | ug/l | 0.10 | 0.02 |
| Benzo(b)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(k)fluoranthene | ND | | ug/l | 0.10 | 0.01 |
| Chrysene | ND | | ug/l | 0.10 | 0.01 |
| Acenaphthylene | ND | | ug/l | 0.10 | 0.01 |
| Anthracene | ND | | ug/l | 0.10 | 0.01 |
| Benzo(ghi)perylene | ND | | ug/l | 0.10 | 0.01 |
| Fluorene | ND | | ug/l | 0.10 | 0.01 |
| Phenanthrene | ND | | ug/l | 0.10 | 0.02 |
| Dibenzo(a,h)anthracene | ND | | ug/l | 0.10 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | | ug/l | 0.10 | 0.01 |
| Pyrene | ND | | ug/l | 0.10 | 0.02 |
| 2-Methylnaphthalene | ND | | ug/l | 0.10 | 0.02 |
| Pentachlorophenol | ND | | ug/l | 0.80 | 0.01 |
| Hexachlorobenzene | ND | | ug/l | 0.80 | 0.01 |
| Hexachloroethane | ND | | ug/l | 0.80 | 0.06 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 01/06/23 19:45
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 01/05/23 23:54

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG1730491-1 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 2-Fluorophenol | 51 | | 21-120 |
| Phenol-d6 | 56 | | 10-120 |
| Nitrobenzene-d5 | 107 | | 23-120 |
| 2-Fluorobiphenyl | 69 | | 15-120 |
| 2,4,6-Tribromophenol | 95 | | 10-120 |
| 4-Terphenyl-d14 | 88 | | 41-149 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/21/23 04:26
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06,09-11 Batch: WG1734847-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.408 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.396 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.238 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.328 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.225 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.376 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.236 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 1.33 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.688 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.312 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.504 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.304 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 1.21 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | 0.648 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.260 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 2.00 | 0.980 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 2.00 | 0.580 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | 0.804 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.372 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | 0.327 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | 0.248 |
| PFOA/PFOS, Total | ND | | ng/l | 2.00 | 0.236 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/21/23 04:26
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06,09-11 Batch: WG1734847-1 | | | | | |

| Surrogate (Extracted Internal Standard) | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 94 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 98 | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 103 | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 88 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 90 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 108 | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 91 | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 100 | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 72 | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 87 | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 86 | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 95 | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 71 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 93 | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 51 | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 75 | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 96 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 78 | | 22-136 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/23/23 16:56
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 01/18/23 17:42

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06,09-11 Batch: WG1734847-1 | | | | | |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 2.00 | 0.580 |

| Surrogate (Extracted Internal Standard) | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 65 | | 10-112 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1730488-2 WG1730488-3 | | | | | | | | |
| Bis(2-chloroethyl)ether | 64 | | 76 | | 40-140 | 17 | | 30 |
| 3,3'-Dichlorobenzidine | 77 | | 86 | | 40-140 | 11 | | 30 |
| 2,4-Dinitrotoluene | 108 | | 117 | | 48-143 | 8 | | 30 |
| 2,6-Dinitrotoluene | 91 | | 94 | | 40-140 | 3 | | 30 |
| 4-Chlorophenyl phenyl ether | 76 | | 81 | | 40-140 | 6 | | 30 |
| 4-Bromophenyl phenyl ether | 78 | | 84 | | 40-140 | 7 | | 30 |
| Bis(2-chloroisopropyl)ether | 66 | | 75 | | 40-140 | 13 | | 30 |
| Bis(2-chloroethoxy)methane | 72 | | 78 | | 40-140 | 8 | | 30 |
| Hexachlorocyclopentadiene | 63 | | 69 | | 40-140 | 9 | | 30 |
| Isophorone | 66 | | 72 | | 40-140 | 9 | | 30 |
| Nitrobenzene | 74 | | 84 | | 40-140 | 13 | | 30 |
| NDPA/DPA | 80 | | 84 | | 40-140 | 5 | | 30 |
| n-Nitrosodi-n-propylamine | 65 | | 73 | | 29-132 | 12 | | 30 |
| Bis(2-ethylhexyl)phthalate | 104 | | 107 | | 40-140 | 3 | | 30 |
| Butyl benzyl phthalate | 90 | | 94 | | 40-140 | 4 | | 30 |
| Di-n-butylphthalate | 82 | | 83 | | 40-140 | 1 | | 30 |
| Di-n-octylphthalate | 96 | | 106 | | 40-140 | 10 | | 30 |
| Diethyl phthalate | 86 | | 87 | | 40-140 | 1 | | 30 |
| Dimethyl phthalate | 80 | | 80 | | 40-140 | 0 | | 30 |
| Biphenyl | 72 | | 75 | | 40-140 | 4 | | 30 |
| 4-Chloroaniline | 53 | | 57 | | 40-140 | 7 | | 30 |
| 2-Nitroaniline | 91 | | 103 | | 52-143 | 12 | | 30 |
| 3-Nitroaniline | 88 | | 92 | | 25-145 | 4 | | 30 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1730488-2 WG1730488-3 | | | | | | | | |
| 4-Nitroaniline | 96 | | 111 | | 51-143 | 14 | | 30 |
| Dibenzofuran | 78 | | 80 | | 40-140 | 3 | | 30 |
| 1,2,4,5-Tetrachlorobenzene | 64 | | 71 | | 2-134 | 10 | | 30 |
| Acetophenone | 66 | | 73 | | 39-129 | 10 | | 30 |
| 2,4,6-Trichlorophenol | 72 | | 74 | | 30-130 | 3 | | 30 |
| p-Chloro-m-cresol | 72 | | 76 | | 23-97 | 5 | | 30 |
| 2-Chlorophenol | 67 | | 76 | | 27-123 | 13 | | 30 |
| 2,4-Dichlorophenol | 71 | | 76 | | 30-130 | 7 | | 30 |
| 2,4-Dimethylphenol | 55 | | 60 | | 30-130 | 9 | | 30 |
| 2-Nitrophenol | 91 | | 98 | | 30-130 | 7 | | 30 |
| 4-Nitrophenol | **82** | Q | **92** | Q | 10-80 | 11 | | 30 |
| 2,4-Dinitrophenol | 88 | | 86 | | 20-130 | 2 | | 30 |
| 4,6-Dinitro-o-cresol | 114 | | 118 | | 20-164 | 3 | | 30 |
| Phenol | 43 | | 49 | | 12-110 | 13 | | 30 |
| 2-Methylphenol | 60 | | 68 | | 30-130 | 13 | | 30 |
| 3-Methylphenol/4-Methylphenol | 67 | | 76 | | 30-130 | 13 | | 30 |
| 2,4,5-Trichlorophenol | 72 | | 78 | | 30-130 | 8 | | 30 |
| Carbazole | 74 | | 83 | | 55-144 | 11 | | 30 |
| Atrazine | 78 | | 85 | | 40-140 | 9 | | 30 |
| Benzaldehyde | 67 | | 78 | | 40-140 | 15 | | 30 |
| Caprolactam | 34 | | 39 | | 10-130 | 14 | | 30 |
| 2,3,4,6-Tetrachlorophenol | 78 | | 79 | | 40-140 | 1 | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1730488-2 WG1730488-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 52 | | 60 | | 21-120 |
| Phenol-d6 | 47 | | 50 | | 10-120 |
| Nitrobenzene-d5 | 80 | | 85 | | 23-120 |
| 2-Fluorobiphenyl | 71 | | 75 | | 15-120 |
| 2,4,6-Tribromophenol | 88 | | 92 | | 10-120 |
| 4-Terphenyl-d14 | 73 | | 78 | | 41-149 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG1730491-2 WG1730491-3 | | | | | | | | |
| Acenaphthene | 69 | | 76 | | 40-140 | 10 | | 40 |
| 2-Chloronaphthalene | 71 | | 78 | | 40-140 | 9 | | 40 |
| Fluoranthene | 80 | | 94 | | 40-140 | 16 | | 40 |
| Hexachlorobutadiene | 65 | | 70 | | 40-140 | 7 | | 40 |
| Naphthalene | 68 | | 75 | | 40-140 | 10 | | 40 |
| Benzo(a)anthracene | 75 | | 88 | | 40-140 | 16 | | 40 |
| Benzo(a)pyrene | 79 | | 93 | | 40-140 | 16 | | 40 |
| Benzo(b)fluoranthene | 78 | | 90 | | 40-140 | 14 | | 40 |
| Benzo(k)fluoranthene | 78 | | 96 | | 40-140 | 21 | | 40 |
| Chrysene | 78 | | 90 | | 40-140 | 14 | | 40 |
| Acenaphthylene | 77 | | 86 | | 40-140 | 11 | | 40 |
| Anthracene | 75 | | 85 | | 40-140 | 13 | | 40 |
| Benzo(ghi)perylene | 78 | | 91 | | 40-140 | 15 | | 40 |
| Fluorene | 74 | | 86 | | 40-140 | 15 | | 40 |
| Phenanthrene | 74 | | 83 | | 40-140 | 11 | | 40 |
| Dibenzo(a,h)anthracene | 83 | | 98 | | 40-140 | 17 | | 40 |
| Indeno(1,2,3-cd)pyrene | 83 | | 98 | | 40-140 | 17 | | 40 |
| Pyrene | 82 | | 95 | | 40-140 | 15 | | 40 |
| 2-Methylnaphthalene | 67 | | 74 | | 40-140 | 10 | | 40 |
| Pentachlorophenol | 98 | | 110 | | 40-140 | 12 | | 40 |
| Hexachlorobenzene | 82 | | 88 | | 40-140 | 7 | | 40 |
| Hexachloroethane | 73 | | 80 | | 40-140 | 9 | | 40 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG1730491-2 WG1730491-3 | | | | | | | | |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 2-Fluorophenol | 57 | | 62 | | 21-120 |
| Phenol-d6 | 50 | | 55 | | 10-120 |
| Nitrobenzene-d5 | 116 | | **125** | Q | 23-120 |
| 2-Fluorobiphenyl | 73 | | 79 | | 15-120 |
| 2,4,6-Tribromophenol | **124** | Q | **140** | Q | 10-120 |
| 4-Terphenyl-d14 | 86 | | 98 | | 41-149 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 Batch: WG1734847-2 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 94 | | - | | 67-148 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 97 | | - | | 63-161 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 95 | | - | | 65-157 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 97 | | - | | 69-168 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 95 | | - | | 58-159 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 116 | | - | | 69-177 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 90 | | - | | 63-159 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 109 | | - | | 49-187 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 112 | | - | | 61-179 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 117 | | - | | 68-171 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 111 | | - | | 52-151 | - | | 30 |
| Perfluorodecanoic Acid (PFDA) | 107 | | - | | 63-171 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 99 | | - | | 56-173 | - | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 107 | | - | | 60-166 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 80 | | - | | 60-153 | - | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 106 | | - | | 38-156 | - | | 30 |
| Perfluorooctanesulfonamide (FOSA) | 94 | | - | | 46-170 | - | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 92 | | - | | 45-170 | - | | 30 |
| Perfluorododecanoic Acid (PFDoA) | 97 | | - | | 67-153 | - | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 114 | | - | | 48-158 | - | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | 115 | | - | | 59-182 | - | | 30 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 Batch: WG1734847-2 | | | | | | | | |

| Surrogate (Extracted Internal Standard) | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 96 | | | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 99 | | | | 62-163 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 104 | | | | 70-131 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 90 | | | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 92 | | | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 110 | | | | 71-134 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 92 | | | | 62-129 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 101 | | | | 14-147 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 73 | | | | 59-139 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 90 | | | | 69-131 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 85 | | | | 62-124 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 104 | | | | 10-162 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 77 | | | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 94 | | | | 55-137 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 55 | | | | 10-112 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 76 | | | | 27-126 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 87 | | | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 75 | | | | 22-136 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 Batch: WG1734847-2 | | | | | | | | |
| Perfluorooctanesulfonamide (FOSA) | 92 | | - | | 46-170 | - | | 30 |

| Surrogate (Extracted Internal Standard) | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 67 | | | | 10-112 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1730488-4 WG1730488-5 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 18.2 | 14 | 77 | | 13 | 72 | | 40-140 | 7 | | 30 |
| 3,3'-Dichlorobenzidine | ND | 18.2 | 3.1J | **17** | Q | 1.6J | **9** | Q | 40-140 | **64** | Q | 30 |
| 2,4-Dinitrotoluene | ND | 18.2 | 20 | 110 | | 21 | 120 | | 48-143 | 5 | | 30 |
| 2,6-Dinitrotoluene | ND | 18.2 | 18 | 99 | | 18 | 99 | | 40-140 | 0 | | 30 |
| 4-Chlorophenyl phenyl ether | ND | 18.2 | 14 | 77 | | 14 | 77 | | 40-140 | 0 | | 30 |
| 4-Bromophenyl phenyl ether | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 30 |
| Bis(2-chloroisopropyl)ether | ND | 18.2 | 14 | 77 | | 14 | 77 | | 40-140 | 0 | | 30 |
| Bis(2-chloroethoxy)methane | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 30 |
| Hexachlorocyclopentadiene | ND | 18.2 | 14.J | 77 | | 13.J | 72 | | 40-140 | 7 | | 30 |
| Isophorone | ND | 18.2 | 13 | 72 | | 14 | 77 | | 40-140 | 7 | | 30 |
| Nitrobenzene | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 30 |
| NDPA/DPA | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 30 |
| n-Nitrosodi-n-propylamine | ND | 18.2 | 14 | 77 | | 14 | 77 | | 29-132 | 0 | | 30 |
| Bis(2-ethylhexyl)phthalate | ND | 18.2 | 20 | 110 | | 20 | 110 | | 40-140 | 0 | | 30 |
| Butyl benzyl phthalate | ND | 18.2 | 18 | 99 | | 17 | 94 | | 40-140 | 6 | | 30 |
| Di-n-butylphthalate | ND | 18.2 | 17 | 94 | | 16 | 88 | | 40-140 | 6 | | 30 |
| Di-n-octylphthalate | ND | 18.2 | 19 | 100 | | 19 | 100 | | 40-140 | 0 | | 30 |
| Diethyl phthalate | ND | 18.2 | 16 | 88 | | 16 | 88 | | 40-140 | 0 | | 30 |
| Dimethyl phthalate | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 30 |
| Biphenyl | ND | 18.2 | 14 | 77 | | 13 | 72 | | 40-140 | 7 | | 30 |
| 4-Chloroaniline | ND | 18.2 | 6.8 | **37** | Q | 8.5 | 47 | | 40-140 | 22 | | 30 |
| 2-Nitroaniline | ND | 18.2 | 19 | 100 | | 20 | 110 | | 52-143 | 5 | | 30 |
| 3-Nitroaniline | ND | 18.2 | 12 | 66 | | 12 | 66 | | 25-145 | 0 | | 30 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1730488-4 WG1730488-5 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| 4-Nitroaniline | ND | 18.2 | 18 | 99 | | 18 | 99 | | 51-143 | 0 | | 30 |
| Dibenzofuran | ND | 18.2 | 13 | 72 | | 14 | 77 | | 40-140 | 7 | | 30 |
| 1,2,4,5-Tetrachlorobenzene | ND | 18.2 | 13 | 72 | | 13 | 72 | | 2-134 | 0 | | 30 |
| Acetophenone | ND | 18.2 | 14 | 77 | | 13 | 72 | | 39-129 | 7 | | 30 |
| 2,4,6-Trichlorophenol | ND | 18.2 | 13 | 72 | | 14 | 77 | | 30-130 | 7 | | 30 |
| p-Chloro-m-cresol | ND | 18.2 | 14 | 77 | | 14 | 77 | | 23-97 | 0 | | 30 |
| 2-Chlorophenol | ND | 18.2 | 14 | 77 | | 14 | 77 | | 27-123 | 0 | | 30 |
| 2,4-Dichlorophenol | ND | 18.2 | 15 | 83 | | 15 | 83 | | 30-130 | 0 | | 30 |
| 2,4-Dimethylphenol | ND | 18.2 | 12 | 66 | | 12 | 66 | | 30-130 | 0 | | 30 |
| 2-Nitrophenol | ND | 18.2 | 19 | 100 | | 19 | 100 | | 30-130 | 0 | | 30 |
| 4-Nitrophenol | ND | 18.2 | 17 | **94** | Q | 18 | **99** | Q | 10-80 | 6 | | 30 |
| 2,4-Dinitrophenol | ND | 18.2 | 23 | 130 | | 23 | 130 | | 20-130 | 0 | | 30 |
| 4,6-Dinitro-o-cresol | ND | 18.2 | 23 | 130 | | 23 | 130 | | 20-164 | 0 | | 30 |
| Phenol | ND | 18.2 | 9.1 | 50 | | 9.2 | 51 | | 12-110 | 1 | | 30 |
| 2-Methylphenol | ND | 18.2 | 13 | 72 | | 12 | 66 | | 30-130 | 8 | | 30 |
| 3-Methylphenol/4-Methylphenol | ND | 18.2 | 13 | 72 | | 13 | 72 | | 30-130 | 0 | | 30 |
| 2,4,5-Trichlorophenol | ND | 18.2 | 14 | 77 | | 14 | 77 | | 30-130 | 0 | | 30 |
| Carbazole | ND | 18.2 | 14 | 77 | | 14 | 77 | | 55-144 | 0 | | 30 |
| Atrazine | ND | 18.2 | 15 | 83 | | 16 | 88 | | 40-140 | 6 | | 30 |
| Benzaldehyde | ND | 18.2 | 13 | 72 | | 13 | 72 | | 40-140 | 0 | | 30 |
| Caprolactam | ND | 18.2 | 7.0J | 39 | | 7.4J | 41 | | 10-130 | 6 | | 30 |
| 2,3,4,6-Tetrachlorophenol | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 30 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** OREGON ROAD SITE

***Project Number:*** 0311-020-001

***Lab Number:*** L2300450

***Report Date:*** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1730488-4 WG1730488-5 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |

| Surrogate | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 93 | | 92 | | 10-120 |
| 2-Fluorobiphenyl | 77 | | 78 | | 15-120 |
| 2-Fluorophenol | 61 | | 64 | | 21-120 |
| 4-Terphenyl-d14 | 71 | | 68 | | 41-149 |
| Nitrobenzene-d5 | 86 | | 89 | | 23-120 |
| Phenol-d6 | 53 | | 55 | | 10-120 |

# Matrix Spike Analysis
## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1730491-4 WG1730491-5 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| Acenaphthene | ND | 18.2 | 15 | 83 | | 14 | 77 | | 40-140 | 7 | | 40 |
| 2-Chloronaphthalene | ND | 18.2 | 14 | 77 | | 14 | 77 | | 40-140 | 0 | | 40 |
| Fluoranthene | ND | 18.2 | 16 | 88 | | 16 | 88 | | 40-140 | 0 | | 40 |
| Hexachlorobutadiene | ND | 18.2 | 13 | 72 | | 13 | 72 | | 40-140 | 0 | | 40 |
| Naphthalene | ND | 18.2 | 14 | 77 | | 13 | 72 | | 40-140 | 7 | | 40 |
| Benzo(a)anthracene | ND | 18.2 | 16 | 88 | | 16 | 88 | | 40-140 | 0 | | 40 |
| Benzo(a)pyrene | ND | 18.2 | 17 | 94 | | 17 | 94 | | 40-140 | 0 | | 40 |
| Benzo(b)fluoranthene | ND | 18.2 | 17 | 94 | | 17 | 94 | | 40-140 | 0 | | 40 |
| Benzo(k)fluoranthene | ND | 18.2 | 16 | 88 | | 17 | 94 | | 40-140 | 6 | | 40 |
| Chrysene | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 40 |
| Acenaphthylene | ND | 18.2 | 16 | 88 | | 16 | 88 | | 40-140 | 0 | | 40 |
| Anthracene | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 40 |
| Benzo(ghi)perylene | ND | 18.2 | 17 | 94 | | 17 | 94 | | 40-140 | 0 | | 40 |
| Fluorene | ND | 18.2 | 16 | 88 | | 16 | 88 | | 40-140 | 0 | | 40 |
| Phenanthrene | ND | 18.2 | 15 | 83 | | 15 | 83 | | 40-140 | 0 | | 40 |
| Dibenzo(a,h)anthracene | ND | 18.2 | 18 | 99 | | 18 | 99 | | 40-140 | 0 | | 40 |
| Indeno(1,2,3-cd)pyrene | ND | 18.2 | 18 | 99 | | 19 | 100 | | 40-140 | 5 | | 40 |
| Pyrene | ND | 18.2 | 17 | 94 | | 17 | 94 | | 40-140 | 0 | | 40 |
| 2-Methylnaphthalene | ND | 18.2 | 13 | 72 | | 13 | 72 | | 40-140 | 0 | | 40 |
| Pentachlorophenol | ND | 18.2 | 24 | 130 | | 25 | 140 | | 40-140 | 4 | | 40 |
| Hexachlorobenzene | ND | 18.2 | 17 | 94 | | 16 | 88 | | 40-140 | 6 | | 40 |
| Hexachloroethane | ND | 18.2 | 15 | 83 | | 14 | 77 | | 40-140 | 7 | | 40 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** OREGON ROAD SITE

***Project Number:*** 0311-020-001

***Lab Number:*** L2300450

***Report Date:*** 01/31/23

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1730491-4 WG1730491-5 QC Sample: L2300450-06 Client ID: MW-12

| *Surrogate* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | **162** | Q | **164** | Q | 10-120 |
| 2-Fluorobiphenyl | 80 | | 80 | | 15-120 |
| 2-Fluorophenol | 74 | | 71 | | 21-120 |
| 4-Terphenyl-d14 | 92 | | 91 | | 41-149 |
| Nitrobenzene-d5 | **138** | Q | **135** | Q | 23-120 |
| Phenol-d6 | 66 | | 64 | | 10-120 |

# Matrix Spike Analysis

## *Batch Quality Control*

**Project Name:** OREGON ROAD SITE

**Project Number:** 0311-020-001

**Lab Number:** L2300450

**Report Date:** 01/31/23

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 QC Batch ID: WG1734847-3 WG1734847-4 QC Sample: L2300450-06 Client ID: MW-12 | | | | | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 74.0 | 35.8 | 110 | 101 | | 112 | 105 | | 67-148 | 2 | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 108 | 35.8 | 147 | 109 | | 149 | 113 | | 63-161 | 1 | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 238 | 31.8 | 276 | 120 | | 287 | 152 | | 65-157 | 4 | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 393 | 35.8 | 432 | 109 | | 450 | 157 | | 69-168 | 4 | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 49.3 | 35.8 | 85.0 | 100 | | 86.0 | 101 | | 58-159 | 1 | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 629 | 32.7 | 664 | 107 | | 653 | 72 | | 69-177 | 2 | | 30 |
| Perfluorooctanoic Acid (PFOA) | 50.3 | 35.8 | 86.8 | 102 | | 88.7 | 106 | | 63-159 | 2 | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 34.1 | 39.5 | 116 | | 40.0 | 116 | | 49-187 | 1 | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 11.6 | 34.2 | 50.4 | 114 | | 51.4 | 115 | | 61-179 | 2 | | 30 |
| Perfluorononanoic Acid (PFNA) | ND | 35.8 | 41.7 | 116 | | 44.3 | 122 | | 68-171 | 6 | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 239 | 33.2 | 272 | 99 | | 273 | 101 | | 52-151 | 0 | | 30 |
| Perfluorodecanoic Acid (PFDA) | ND | 35.8 | 33.5 | 94 | | 38.4 | 106 | | 63-171 | 14 | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 34.4 | 34.7 | 101 | | 34.3 | 98 | | 56-173 | 1 | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 35.8 | 35.8 | 100 | | 37.1 | 102 | | 60-166 | 4 | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | 35.8 | 28.1 | 78 | | 28.6 | 79 | | 60-153 | 2 | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | 34.6 | 36.6 | 106 | | 40.3 | 115 | | 38-156 | 10 | | 30 |
| Perfluorooctanesulfonamide (FOSA) | ND | 35.8 | 31.6F | 88 | | 32.9 | 90 | | 46-170 | 4 | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 35.8 | 33.8 | 94 | | 33.1 | 91 | | 45-170 | 2 | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | 35.8 | 31.0 | 87 | | 31.8 | 88 | | 67-153 | 3 | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | 35.8 | 37.6 | 105 | | 39.3 | 108 | | 48-158 | 4 | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | ND | 35.8 | 39.2 | 109 | | 39.2 | 108 | | 59-182 | 0 | | 30 |

# Matrix Spike Analysis

***Batch Quality Control***

***Project Name:*** OREGON ROAD SITE

***Project Number:*** 0311-020-001

***Lab Number:*** L2300450

***Report Date:*** 01/31/23

| *Parameter* | *Native Sample* | *MS Added* | *MS Found* | *MS %Recovery* | *Qual* | *MSD Found* | *MSD %Recovery* | *Qual* | *Recovery Limits* | *RPD* | *Qual* | *RPD Limits* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06,09-11 QC Batch ID: WG1734847-3 WG1734847-4 QC Sample: L2300450-06 Client ID: MW-12

| *Surrogate (Extracted Internal Standard)* | *MS % Recovery* | *MS Qualifier* | *MSD % Recovery* | *MSD Qualifier* | *Acceptance Criteria* |
|---|---|---|---|---|---|
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | **167** | Q | **177** | Q | 10-162 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | **205** | Q | **211** | Q | 14-147 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 73 | | 67 | | 27-126 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 72 | | 65 | | 24-116 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 93 | | 89 | | 55-137 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 83 | | 75 | | 62-124 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 65 | | 61 | | 57-129 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 83 | | 78 | | 60-129 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 97 | | 97 | | 71-134 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 84 | | 80 | | 48-131 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 72 | | 71 | | 22-136 |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 90 | | 88 | | 58-132 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 67 | | 64 | | 62-163 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 44 | | 38 | | 10-112 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 83 | | 85 | | 69-131 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 87 | | 83 | | 62-129 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 74 | | 69 | | 59-139 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 88 | | 89 | | 70-131 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

### Cooler Information

| Cooler | Custody Seal |
|---|---|
| A | Absent |
| C | Absent |

### Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2300450-01A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-01B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-01C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-01D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-01E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-02A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-02B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-02C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-02D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-02E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-03A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-03B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-03C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-03D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-03E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-04A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-04B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-04C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-04D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-04E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-05A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-05B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2300450-05C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-05D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-05E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-06A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06A1 | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06A2 | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06B1 | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06B2 | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06C1 | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06C2 | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-06D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-06D1 | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-06D2 | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-06E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-06E1 | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-06E2 | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-06F | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-06F1 | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-06F2 | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-06G | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-06G1 | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-06G2 | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-07A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-07B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-07C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-07D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |



*Values in parentheses indicate holding time in days

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

## Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---|---|---|---|---|---|---|---|---|---|
| L2300450-07E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-08A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-08B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-08C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-08D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-08E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-09A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-09B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-09C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-09D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-09E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-09F | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-09G | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-10A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-10B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-10C | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-10D | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-SIM-LVI(7) |
| L2300450-10E | Amber 250ml unpreserved | C | 6 | 6 | 3.8 | Y | Absent | | NYTCL-8270-LVI(7) |
| L2300450-10F | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-10G | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-11A | Plastic 250ml unpreserved | A | NA | | 2.9 | Y | Absent | | A2-NY-537-ISOTOPE(28) |
| L2300450-12A | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |
| L2300450-12B | Vial HCl preserved | C | NA | | 3.8 | Y | Absent | | NYTCL-8260-R2(14) |



*Values in parentheses indicate holding time in days

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001
**Lab Number:** L2300450
**Report Date:** 01/31/23

## PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|---|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs) | | |
| Perfluorooctadecanoic Acid | PFODA | 16517-11-6 |
| Perfluorohexadecanoic Acid | PFHxDA | 67905-19-5 |
| Perfluorotetradecanoic Acid | PFTA/PFTeDA | 376-06-7 |
| Perfluorotridecanoic Acid | PFTrDA | 72629-94-8 |
| Perfluorododecanoic Acid | PFDoA | 307-55-1 |
| Perfluoroundecanoic Acid | PFUnA | 2058-94-8 |
| Perfluorodecanoic Acid | PFDA | 335-76-2 |
| Perfluorononanoic Acid | PFNA | 375-95-1 |
| Perfluorooctanoic Acid | PFOA | 335-67-1 |
| Perfluoroheptanoic Acid | PFHpA | 375-85-9 |
| Perfluorohexanoic Acid | PFHxA | 307-24-4 |
| Perfluoropentanoic Acid | PFPeA | 2706-90-3 |
| Perfluorobutanoic Acid | PFBA | 375-22-4 |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs) | | |
| Perfluorododecanesulfonic Acid | PFDoDS/PFDoS | 79780-39-5 |
| Perfluorodecanesulfonic Acid | PFDS | 335-77-3 |
| Perfluorononanesulfonic Acid | PFNS | 68259-12-1 |
| Perfluorooctanesulfonic Acid | PFOS | 1763-23-1 |
| Perfluoroheptanesulfonic Acid | PFHpS | 375-92-8 |
| Perfluorohexanesulfonic Acid | PFHxS | 355-46-4 |
| Perfluoropentanesulfonic Acid | PFPeS | 2706-91-4 |
| Perfluorobutanesulfonic Acid | PFBS | 375-73-5 |
| Perfluoropropanesulfonic Acid | PFPrS | 423-41-6 |
| FLUOROTELOMERS | | |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid | 10:2FTS | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid | 8:2FTS | 39108-34-4 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid | 6:2FTS | 27619-97-2 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid | 4:2FTS | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs) | | |
| Perfluorooctanesulfonamide | FOSA/PFOSA | 754-91-6 |
| N-Ethyl Perfluorooctane Sulfonamide | NEtFOSA | 4151-50-2 |
| N-Methyl Perfluorooctane Sulfonamide | NMeFOSA | 31506-32-8 |
| PERFLUOROALKANE SULFONYL SUBSTANCES | | |
| N-Ethyl Perfluorooctanesulfonamido Ethanol | NEtFOSE | 1691-99-2 |
| N-Methyl Perfluorooctanesulfonamido Ethanol | NMeFOSE | 24448-09-7 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid | NEtFOSAA | 2991-50-6 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid | NMeFOSAA | 2355-31-9 |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS | | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA | 13252-13-6 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid | ADONA | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS | | |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid | 9Cl-PF3ONS | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESAs) | | |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid | PFEESA | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs) | | |
| Perfluoro-3-Methoxypropanoic Acid | PFMPA | 377-73-1 |
| Perfluoro-4-Methoxybutanoic Acid | PFMBA | 863090-89-5 |
| Nonafluoro-3,6-Dioxaheptanoic Acid | NFDHA | 151772-58-6 |

**Project Name:** OREGON ROAD SITE
**Project Number:** 0311-020-001

**Lab Number:** L2300450
**Report Date:** 01/31/23

## PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|---|---|
| FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs) | | |
| 3-Perfluoroheptyl Propanoic Acid | 7:3FTCA | 812-70-4 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid | 5:3FTCA | 914637-49-3 |
| 3-Perfluoropropyl Propanoic Acid | 3:3FTCA | 356-02-5 |

| | | | |
|---|---|---|---|
| **Project Name:** | OREGON ROAD SITE | **Lab Number:** | L2300450 |
| **Project Number:** | 0311-020-001 | **Report Date:** | 01/31/23 |

## 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:** | OREGON ROAD SITE | **Lab Number:** | L2300450 |
| **Project Number:** | 0311-020-001 | **Report Date:** | 01/31/23 |

***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:** | OREGON ROAD SITE | **Lab Number:** | L2300450 |
| **Project Number:** | 0311-020-001 | **Report Date:** | 01/31/23 |

***Data Qualifiers***

Identified Compounds (TICs).

**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.)

*Report Format: DU Report with 'J' Qualifiers*

| | | | |
|---|---|---|---|
| **Project Name:** | OREGON ROAD SITE | **Lab Number:** | L2300450 |
| **Project Number:** | 0311-020-001 | **Report Date:** | 01/31/23 |

## REFERENCES


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

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.


## 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 624/624.1:** m/p-xylene, o-xylene, Naphthalene
**EPA 625/625.1:** alpha-Terpineol
**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270D/8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
**SM4500**: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

**Mansfield Facility**
**SM 2540D:** TSS
**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
**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.
**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 332**: Perchlorate; **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), **EPA 600/4-81-045**: PCB-Oil.
**Microbiology**: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, 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.

ALPHA ANALYTICAL

# NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 1/5/23

ALPHA Job #: L2300450

**Client Information**
Client: Turnkey
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: Lriker@hm-tc.com

**Project Information**
Project Name: Oregon Road Site
Project Location: Olean, NY
Project # 0311-020-001
(Use Project name as Project #)
Project Manager:
ALPHAQuote #:

**Turn-Around Time**
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

**Deliverables**
[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

**Regulatory Requirement**
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

**Billing Information**
[ ] Same as Client Info
PO #

**Disposal Site Information**
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

**ANALYSIS**

**Sample Filtration**
[ ] Done
[ ] Lab to do
**Preservation**
[ ] Lab to do
*(Please Specify below)*

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL+CP-51 VOCs+TICs | TCL+CP-51 SVOCs+TICs | PFAS EPA 537 | | | | | | Sample Specific Comments | Total Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L2300450-01 | MW-2R | 1-3-23 | 1210 | water | CEH | X | X | | | | | | | | |
| -02 | MW-5 | | 1500 | | | X | X | | | | | | | | |
| -03 | MW-7 | | 1450 | | | X | X | | | | | | | | |
| -04 | MW-8 | | 1340 | | | X | X | | | | | | | | |
| -05 | MW-9 | | 1250 | | | X | X | | | | | | | | |
| 06 | MW-12 | | 1010 | | | X | X | X | | | | | | | |
| 06 | MS/MSD | | 1010 | | | X | X | X | | | | | | | |
| -07 | MW-13 | | 1230 | | | X | X | | | | | | | | |
| -08 | MW-15 | | 1110 | | | X | X | | | | | | | | |
| -09 | MW-16 | | 1040 | | | X | X | X | | | | | | | |

Container Type: V A P
Preservative: B A A

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| Chester Hardwater | 1-3-23/1745 | [signature] AAL | 1/4/23 1402 |
| [signature] AAL | 1/4/23 1530 | [signature] | 1/5/23 0030 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

**Service Centers**
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 1/5/23

ALPHA Job #: L2300450

## Client Information

Client: Turnkey
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: LFiess@hm-tk.com

## Project Information

Project Name: Oregon Road Site
Project Location: Olean, NY
Project # 0311-020-001
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

## Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

## Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

## Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

## Billing Information

☐ Same as Client Info
PO #

## Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

**Other project specific requirements/comments:**

**Please specify Metals or TAL.**

## ANALYSIS

***Sample Filtration***
☐ Done
☐ Lab to do
***Preservation***
☐ Lab to do
***(Please Specify below)***

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | TCL+TICs+NYCP-51 | TCL+TICs+NYCP-51 | PFAS EPA 537 | Total Bottle | Sample Specific Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| L0450-10 | Blind Dup | 1-3-23 | 0800 | Water | CEH | X | X | X | | |
| -11 | Field Blank | 1-3-23 | 0830 | Water | CEH | | | X | | |
| -12 | Trip Blank | 1-3-23 | 0845 | Water | CEH | X | | | | |

Preservative Code:
A = None
B = HCl
C = $HNO_3$
D = $H_2SO_4$
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

| | | | |
|---|---|---|---|
| Container Type | V | A | P |
| Preservative | B | A | A |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| Chester Hochreiter | 1-3-23/1745 | | |
| | 1/4/23 1530 | | 1/5/23 0030 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

# GROUNDWATER FIELD FORM

Project Name: | Date:

Location: | Project No.: | Field Team:

| Well No. MW-2R | | | Diameter (inches): 2" | | | Sample Date / Time: 1-3-2023 / 1210 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 12.13 | | | DTW when sampled: 14.15 | | | |
| DTW (static) (fbTOR): 6.05 | | | One Well Volume (gal): 1.98 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.18 | | | Total Volume Purged (gal): 10.00 | | | Purge Method: Bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1140 | 0 Initial | 0.00 | 6.75 | 11.6 | 657.1 | >1000 | 1.92 | -90 | Turbid, no odor |
| 1148 | 1 10.45 | 2.00 | 6.73 | 10.6 | 742.3 | " | 1.55 | -84 | " , SL Petrol odor |
| 1152 | 2 12.12 | 4.00 | 6.70 | 10.7 | 747.1 | " | 1.76 | -81 | " " " |
| 1156 | 3 15.10 | 6.00 | 6.68 | 11.1 | 796.6 | " | 1.86 | -84 | " " " |
| 1200 | 4 16.31 | 8.00 | 6.69 | 11.3 | 796.3 | " | 1.85 | -85 | " " " |
| 1204 | 5 16.85 | 10.00 | 6.69 | 11.4 | 725.3 | " | 2.26 | -78 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1210 | S1 14.15 | 10.00 | 6.71 | 11.5 | 747.8 | >1000 | 2.80 | -60 | Turbid, SL Petrol odor |
| 1216 | S2 14.05 | 10.00 | 6.70 | 10.5 | 736.9 | >1000 | 3.03 | -33 | " " " |

| Well No. MW-9 | | | Diameter (inches): 2" | | | Sample Date / Time: 1-3-2023 / 1250 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 11.82 | | | DTW when sampled: 8.00 | | | |
| DTW (static) (fbTOR): 5.25 | | | One Well Volume (gal): 1.93 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 17.07 | | | Total Volume Purged (gal): 10.00 | | | Purge Method: Bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1224 | 0 Initial | 0.00 | 6.54 | 10.2 | 707.2 | | 1.36 | -33 | clear, no odor |
| 1229 | 1 8.05 | 2.00 | 6.59 | 9.6 | 725.5 | | 1.85 | -54 | " " " |
| 1234 | 2 11.09 | 4.00 | 6.61 | 10.0 | 715.7 | | 1.96 | -55 | Turbid, no odor |
| 1238 | 3 11.88 | 6.00 | 6.64 | 10.1 | 710.9 | | 2.92 | -55 | " " " |
| 1242 | 4 11.73 | 8.00 | 6.67 | 9.8 | 712.2 | | 4.63 | -48 | " " " |
| 1247 | 5 12.71 | 10.00 | 6.64 | 10.0 | 709.2 | | 2.69 | -41 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1250 | S1 8.00 | 10.00 | 6.65 | 10.0 | 761.2 | 41.6 | 5.58 | -33 | clear, no odor |
| 1255 | S2 7.69 | 10.00 | 6.51 | 9.3 | 705.8 | 67.8 | 4.79 | -27 | clear, no odor |

**REMARKS:** Water Levels: MW-6 - 4.43' MW-4 - 7.06'
MW-2R - 6.05', MW-5 - 13.35', MW-7 - 10.25'
MW-8 - 1.65', MW-9 - 5.25', MW-10 - 11.75'
MW-11 - 9.07', MW-12 - 15.80, MW-13 - 8.06,
MW-15 - 15.61, MW-16 - 11.75'
*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

TurnKey Environmental Restoration LLC

# GROUNDWATER FIELD FORM

Project Name: Date:

Location: Project No.: Field Team:

| Well No. MW-7 | | | Diameter (inches): 2 | | | Sample Date / Time: 1-3-23 / 1450 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 9.47 | | | DTW when sampled: 12.45 | | | |
| DTW (static) (fbTOR): 10.25 | | | One Well Volume (gal): 1.54 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 19.72 | | | Total Volume Purged (gal): 3.75 | | | Purge Method: Bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1343 | 0 Initial | 0.00 | 6.45 | 11.9 | 243.1 | | 1.08 | 52 | clear, no odor |
| 1409 | 1 14.91 | 1.75 | 5.61 | 11.4 | 244.5 | | 1.45 | 126 | Turbid, no odor |
| 1412 | 2 18.45 | 3.25 | 5.66 | 11.3 | 246.0 | | 2.60 | 107 | " " " |
| 1415 | 3 Dry | 3.75 | | | | | | | |
| | 4 | | | | | | | | |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1450 | S1 12.45 | 3.75 | 5.75 | 11.2 | 256.8 | 63 | 3.37 | 112 | clear, no odor |
| 1457 | S2 13.00 | 3.75 | 5.83 | 12.1 | 258.0 | 212 | 2.36 | 118 | SL Turbid, no odor |

| Well No. | | | Diameter (inches): | | | Sample Date / Time: | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): | | | DTW when sampled: | | | |
| DTW (static) (fbTOR): | | | One Well Volume (gal): | | | Purpose: ☐ Development ☐ Sample ☐ Purge & Sample | | | |
| Total Depth (fbTOR): | | | Total Volume Purged (gal): | | | Purge Method: | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| | 0 Initial | | | | | | | | |
| | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| | S1 | | | | | | | | |
| | S2 | | | | | | | | |

**REMARKS:**

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: | Date:

Location: | Project No.: | Field Team:

| Well No. MW-12 | | | Diameter (inches): 2 | | | Sample Date / Time: 1-3-2023 / 1010 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 3.59 | | | DTW when sampled: 15.83 | | | |
| DTW (static) (fbTOR): 15.80 | | | One Well Volume (gal): 0.59 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 19.39 | | | Total Volume Purged (gal): 3.75 | | | Purge Method: Bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 950 | 0 Initial | 0.00 | 6.21 | 12.0 | 866.7 | | 1.55 | 63 | Clear, no odor |
| 0955 | 1 15.81 | 0.75 | 6.25 | 11.9 | 833.4 | | 1.34 | 58 | Turbid, no odor |
| 0959 | 2 15.87 | 1.50 | 6.28 | 12.2 | 803.1 | | 1.27 | 62 | " " " |
| 1001 | 3 15.90 | 2.25 | 6.32 | 12.3 | 787.5 | | 1.35 | 64 | " " " |
| 1004 | 4 15.87 | 3.00 | 6.37 | 12.4 | 765.1 | | 1.47 | 72 | " " " |
| 1006 | 5 15.91 | 3.75 | 6.40 | 12.4 | 759.3 | | 1.53 | 66 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1010 | S1 15.83 | 3.75 | 6.42 | 12.2 | 755.6 | 363 | 1.56 | 62 | Turbid, no odor |
| 1036 | S2 15.83 | 3.75 | 6.48 | 11.9 | 737.0 | 197 | 1.39 | 55 | |

| Well No. MW-15 | | | Diameter (inches): 2 | | | Sample Date / Time: 1-3-23 / 1110 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): 2.72 | | | DTW when sampled: 15.93 | | | |
| DTW (static) (fbTOR): 15.61 | | | One Well Volume (gal): 0.44 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.33 | | | Total Volume Purged (gal): 0.50 | | | Purge Method: Bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1055 | 0 Initial | 0.00 | 6.34 | 12.1 | 815.3 | | 0.99 | -56 | Clear, no odor |
| 1058 | 1 Dry | 0.50 | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1110 | S1 15.93 | 0.50 | 6.48 | 11.9 | 745.1 | 142 | 0.83 | -78 | SL Turbid, no odor |
| 1115 | S2 16.91 | 0.50 | 6.48 | 12.2 | 730.6 | 143 | 0.95 | -77 | " " " |

**REMARKS:** Toxic MS/MSD with MW-12

Turbid meter not functioning used other meter from other Bulk Sampler for pre sampling Turbid

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: Date:

Location: Project No.: Field Team:

| **Well No.** | | | Diameter (inches): | | | Sample Date / Time: | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): | | | DTW when sampled: | | | |
| DTW (static) (fbTOR): | | | One Well Volume (gal): | | | Purpose: ☐ Development ☐ Sample ☐ Purge & Sample | | | |
| Total Depth (fbTOR): | | | Total Volume Purged (gal): | | | Purge Method: | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| | 0 Initial | | | | | | | | |
| | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| | S1 | | | | | | | | |
| | S2 | | | | | | | | |

| **Well No.** | | | Diameter (inches): | | | Sample Date / Time: | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): | | | DTW when sampled: | | | |
| DTW (static) (fbTOR): | | | One Well Volume (gal): | | | Purpose: ☐ Development ☐ Sample ☐ Purge & Sample | | | |
| Total Depth (fbTOR): | | | Total Volume Purged (gal): | | | Purge Method: | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| | 0 Initial | | | | | | | | |
| | 1 | | | | | | | | |
| | 2 | | | | | | | | |
| | 3 | | | | | | | | |
| | 4 | | | | | | | | |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| | S1 | | | | | | | | |
| | S2 | | | | | | | | |

**REMARKS:**

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: Oregon Road  Date: 1/03/2023
Location:  Project No.:  Field Team:

| Well No. MW-8 | | | Diameter (inches): 2" | | | Sample Date / Time: 1/03/2023 / 1340 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): | | | DTW when sampled: 15.05 | | | |
| DTW (static) (fbTOR): 11.65 | | | One Well Volume (gal): 2.58 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 17.53 | | | Total Volume Purged (gal): 12.50 | | | Purge Method: bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1310 | 0 Initial | 0.00 | 6.66 | 9.8 | 1055 | >1000 | 2.05 | -63 | turbid; sl. petrol odor |
| 1315 | 1 7.15 | 2.50 | 6.48 | 10.3 | 1066 | >1000 | 1.74 | -65 | " " " |
| 1320 | 2 10.70 | 5.00 | 6.48 | 10.7 | 1067 | >1000 | 1.50 | -77 | " " " |
| 1328 | 3 13.22 | 7.50 | 6.47 | 10.9 | 1069 | >1000 | 1.20 | -75 | " " " |
| 1333 | 4 15.18 | 10.00 | 6.45 | 10.7 | 1065 | >1000 | 1.32 | -76 | " " " |
| 1338 | 5 15.95 | 12.50 | 6.47 | 10.8 | 1055 | >1000 | 1.50 | -80 | " " " |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1340 | S1 15.05 | 12.50 | 6.47 | 10.8 | 1054 | >1000 | 1.51 | -83 | " " " |
| 1345 | S2 ~~15.18~~ 15.18 | 12.50 | 6.56 | 10.6 | 992.6 | >1000 | 1.50 | -78 | " " " |

| Well No. MW-5 | | | Diameter (inches): 2" | | | Sample Date / Time: 1/03/2023 / 1500 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Depth (fbTOR): | | | Water Column (ft): | | | DTW when sampled: 14.08 | | | |
| DTW (static) (fbTOR): 13.35 | | | One Well Volume (gal): 0.81 | | | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample | | | |
| Total Depth (fbTOR): 18.32 | | | Total Volume Purged (gal): 4.00 | | | Purge Method: bailer | | | |
| Time | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
| 1430 | 0 Initial | 0.00 | 5.90 | 11.9 | 500.8 | 899 | 0.80 | 14 | ~~sl. turbid~~; no odor |
| 1436 | 1 13.50 | 1.00 | 5.90 | 12.0 | 506.1 | 118 | 0.89 | 12 | " " " |
| 1440 | 2 14.11 | 2.00 | 5.88 | 12.0 | 511.3 | 94.3 | 0.86 | 11 | clear; no odor |
| 1445 | 3 14.26 | 3.00 | 5.89 | 12.0 | 509.0 | 96.7 | 0.84 | 16 | " " " |
| 1450 | 4 14.34 | 4.00 | 5.91 | 12.0 | 508.7 | 80.4 | 0.87 | 17 | " " " |
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 7 | | | | | | | | |
| | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| | 10 | | | | | | | | |
| **Sample Information:** | | | | | | | | | |
| 1500 | S1 ~~14.34~~ 14.71 | 4.00 | 5.93 | 11.9 | 512.3 | 86.11 | .97 | 14 | " " " |
| 1505 | S2 ~~14.34~~ 14.71 | 4.00 | 5.94 | 11.9 | 507.8 | 71.1 | 1.00 | 16 | " " " |

**REMARKS:**

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

*Note: All measurements are in feet, distance from top of riser.*

**PREPARED BY:**

# GROUNDWATER FIELD FORM

Project Name: | Date:

Location: | Project No.: | Field Team:

| Well No. MW-16 | Diameter (inches): 2" | Sample Date / Time: 1/03/23 / 1040 |
|---|---|---|
| Product Depth (fbTOR): | Water Column (ft): | DTW when sampled: 11.92 |
| DTW (static) (fbTOR): 11.75 | One Well Volume (gal): 1.39 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample |
| Total Depth (fbTOR): ~~12.07~~ 20.52 ~~11.75~~ | Total Volume Purged (gal): 8.00 | Purge Method: bailer |

| Time | | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
|---|---|---|---|---|---|---|---|---|---|---|
| 1000 | 0 | Initial | 0.00 | ~~7.2~~ 6.41 | 11.7 | 951.7 | 12.2 | 4.77 | 97 | ~~turbid~~ slt turbid; no odor |
| 1006 | 1 | 12.05 | 1.50 | 6.55 | 11.7 | 858.0 | >1000 | 2.50 | 4 | " " " |
| 1014 | 2 | 11.89 | 3.00 | 6.78 | 11.2 | 812.7 | >1000 | 1.33 | -18 | " " " |
| 1021 | 3 | 11.90 | 4.50 | 6.79 | 10.9 | 802.4 | >1000 | 1.20 | -21 | " " " |
| 1030 | 4 | 11.92 | 6.00 | 6.81 | 11.1 | 792.4 | >1000 | 1.04 | -28 | " " " |
| 1039 | 5 | 1192 | 7.50 | 6.79 | 11.2 | 770.6 | >1000 | 0.82 | -39 | " " " |
| ~~1040~~ | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |
| | 9 | | | | | | | | | |
| | 10 | | | | | | | | | |
| **Sample Information:** | | | | | | | | | | |
| 1040 | S1 | 1192 | 7.50 | 6.82 | 10.8 | 783.2 | >1000 | 1.75 | -31 | " " " |
| 1045 | S2 | 1192 | 8.00 | 6.85 | 11.0 | 779.8 | >1000 | 1.84 | -35 | " " " |

| Well No. MW-13 | Diameter (inches): 2" | Sample Date / Time: 1/03/23 / 12:30 |
|---|---|---|
| Product Depth (fbTOR): | Water Column (ft): | DTW when sampled: 18.20 |
| DTW (static) (fbTOR): 8.06 | One Well Volume (gal): 2.01 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample |
| Total Depth (fbTOR): 20.40 | Total Volume Purged (gal): 10.50 | Purge Method: baler |

| Time | | Water Level (fbTOR) | Acc. Volume (gallons) | pH (units) | Temp. (deg. C) | SC (uS) | Turbidity (NTU) | DO (mg/L) | ORP (mV) | Appearance & Odor |
|---|---|---|---|---|---|---|---|---|---|---|
| 1150 | 0 | Initial | 0.00 | 7.37 | 9.4 | 551.3 | 143 | 1.62 | 97 | slt turbid; no odor |
| 1159 | 1 | 12.34 | 2.00 | 7.39 | 10.0 | 503.5 | 382 | 1.42 | 89 | " " " |
| 1206 | 2 | 14.85 | 4.00 | 7.35 | 10.6 | 508.5 | 431 | 1.34 | -93 | " " " |
| 1215 | 3 | 15.34 | 6.00 | 7.35 | 10.9 | 508.0 | 499 | 1.29 | -100 | " " " |
| 1220 | 4 | 17.80 | 8.00 | 7.32 | 11.3 | 508.9 | 506 | 1.17 | -100 | " " " |
| 1227 | 5 | 18.20 | 10.00 | 7.37 | 11.2 | 506.3 | 499 | 1.20 | -99 | " " " |
| | 6 | | | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |
| | 9 | | | | | | | | | |
| | 10 | | | | | | | | | |
| **Sample Information:** | | | | | | | | | | |
| 1230 | S1 | 18.20 | 10.50 | 7.39 | 11.1 | 506.5 | 438 | 1.25 | -95 | " " " |
| 1235 | S2 | 19.55 | 10.50 | 7.44 | 11.1 | 508.3 | 436 | 1.29 | -92 | " " " |

**REMARKS:**

BLIND-DUPE TAKEN AT MW-16.

*Note: All measurements are in feet, distance from top of riser.*

Volume Calculation

| Diam. | Vol. (g/ft) |
|---|---|
| 1" | 0.041 |
| 2" | 0.163 |
| 4" | 0.653 |
| 6" | 1.469 |

Stabilization Criteria

| Parameter | Criteria |
|---|---|
| pH | ± 0.1 unit |
| SC | ± 3% |
| Turbidity | ± 10% |
| DO | ± 0.3 mg/L |
| ORP | ± 10 mV |

**PREPARED BY:**

TurnKey Environmental Restoration, LLC

# EQUIPMENT CALIBRATION LOG

**PROJECT INFORMATION:**

Project Name:

Project No.:

Client:

Date: 1/3/2023

Instrument Source: [X] BM [ ] Rental

| METER TYPE | UNITS | TIME | MAKE/MODEL | SERIAL NUMBER | CAL. BY | STANDARD | POST CAL. READING | SETTINGS |
|---|---|---|---|---|---|---|---|---|
| [X] pH meter | units | 0915 | Myron L Company Ultra Meter 6P | 6213516 [ ]<br>6243084 [ ]<br>6212375 [ ]<br>6223973 [X] | CEH | 4.00<br>7.00<br>10.01 | 3.99<br>7.04<br>10.00 | |
| [ ] Turbidity meter | NTU | | Hach 2100P or 2100Q Turbidimeter | 06120C020523 (P) [ ]<br>13120C030432 (Q) [ ] | | < 0.4 or 10 for 2100 Q<br>20<br>100<br>800 | | |
| [ ] Turbidity meter | NTU | | LaMotte 2020 | 6523-1816 (La) [ ] | | 0.0 NTU<br>1.0 NTU<br>10.0 NTU | | |
| [X] Sp. Cond. meter | uS<br>mS | 0915 | Myron L Company Ultra Meter 6P | 6213516 [ ]<br>6243084 [ ]<br>6212375 [ ]<br>6223973 [X] | CEH | 7000 mS @ 25 °C | 6994 | |
| [ ] PID | ppm | | MinRAE 2000 | | | open air zero<br>_____ ppm Iso. Gas | | MIBK response factor = 1.0 |
| [X] Dissolved Oxygen | ppm | 0915 | HACH Model HQ30d | 080700023281 [ ]<br>100500041867 [ ]<br>1402000100319 [X] | CEH | 100% Satuartion | 100% | 102% slope |
| [ ] Particulate meter | mg/m$^3$ | | | | | zero air | | |
| [ ] Oxygen | % | | | | | open air | | |
| [ ] Hydrogen sulfide | ppm | | | | | open air | | |
| [ ] Carbon monoxide | ppm | | | | | open air | | |
| [ ] LEL | % | | | | | open air | | |
| [ ] Radiation Meter | uR/H | | | | | background area | | |

**ADDITIONAL REMARKS:**

**PREPARED BY:** **DATE:**

TurnKey Environmental Restoration LLC

# EQUIPMENT CALIBRATION LOG

**PROJECT INFORMATION:**

Project Name:

Project No.:

Client:

Date: 1/03/2023

Instrument Source: ☐ BM ☐ Rental

| METER TYPE | UNITS | TIME | MAKE/MODEL | SERIAL NUMBER | CAL. BY | STANDARD | POST CAL. READING | SETTINGS |
|---|---|---|---|---|---|---|---|---|
| ☐ pH meter | units | | Myron L Company Ultra Meter 6P | 6213516 ☐<br>6243084 ☐<br>6212375 ☐<br>6223973 ☐ | | 4.00<br>7.00<br>10.01 | 3.99<br>7.06<br>10.00 | |
| ☐ Turbidity meter | NTU | | Hach 2100P or 2100Q Turbidimeter | 06120C020523 (P) ☐<br>13120C030432 (Q) ☐ | | < 0.4 or 10 for 2100 Q<br>20<br>100<br>800 | 10.00 | |
| ☐ Turbidity meter | NTU | | LaMotte 2020 | 6523-1816 (La) ☐ | | 0.0 NTU<br>1.0 NTU<br>10.0 NTU | 10. | |
| ☐ Sp. Cond. meter | uS<br>mS | | Myron L Company Ultra Meter 6P | 6213516 ☐<br>6243084 ☐<br>6212375 ☐<br>6223973 ☐ | | _____ mS @ 25 °C | | |
| ☐ PID | ppm | | MinRAE 2000 | | | open air zero<br>_____ ppm Iso. Gas | | MIBK response factor = 1.0 |
| ☐ Dissolved Oxygen | ppm | | HACH Model HQ30d | 080700023281 ☐<br>100500041867 ☐<br>1402000100319 ☐ | | 100% Satuartion | 100% | |
| ☐ Particulate meter | mg/m$^3$ | | | | | zero air | | |
| ☐ Oxygen | % | | | | | open air | | |
| ☐ Hydrogen sulfide | ppm | | | | | open air | | |
| ☐ Carbon monoxide | ppm | | | | | open air | | |
| ☐ LEL | % | | | | | open air | | |
| ☐ Radiation Meter | uR/H | | | | | background area | | |

**ADDITIONAL REMARKS:**

**PREPARED BY:** **DATE:**