Periodic Review Report

Former Doro Dry Cleaners Site
3460-3466 Genesee Street
Cheektowaga, New York
NYSDEC #915238

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Prepared for:

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this Periodic Review Report (PRR) on behalf of J&M Walden Holdings Corp. to summarize the post-remedial status of the Former Doro Dry Cleaners (Site), a New York State Department of Environmental Conservation (NYSDEC or Department) Class 4, New York State (NYS) Inactive Hazardous Waste Disposal Site, Site No. 915238, located in the Town of Cheektowaga, Erie County, New York (see Figures 1 and 2).

This PRR has been prepared for the Site in accordance with NYSDEC DER-10/ Technical Guidance for Site Investigation and Remediation (May 3, 2010) (Ref. 1) for the period June 8, 2023 to June 8, 2024. Appendix A includes the completed NYSDEC Institutional and Engineering Controls (IC/EC) Certification Form for the Site.

1.1 Site Background

J&M Walden Holdings Corp., formerly known as Doritex Corp. (J&M), entered into a State Superfund Program Order on Consent Administrative Settlement, Index No. R9-20170428-59 (Order on Consent) on June 21, 2017 with the NYSDEC to remediate the Site. The Site area subject to the Environmental Easement (EE) is shown in Figure 2. The Site boundaries are more fully described in the metes and bounds description that is part of the EE included as Appendix A of the Site Management Plan (SMP, Ref. 2). J&M is not the Site owner but rather is an entity that formerly shared space with the former Doro Dry Cleaner which is the entity believed to be responsible for the Site contamination. J&M entered into an Access Agreement with the owner of the real property comprising the Site, Elakor Inc., dated April 24, 2016 which allowed J&M access to the Site to design and implement the Department-approved Remedial Action Work Plan (RAWP, Ref. 3), and for any required post-remedial operation, maintenance, and monitoring activities. At the time the EE was prepared and executed, the property owner was Elakor Inc., who is the grantor of the EE to the Department.

The Site is located in the Town of Cheektowaga, Erie County, New York and is comprised of a portion of two (2) tax parcels, including a 0.18-acre parcel located at 3460 Genesee Street, Cheektowaga, New York (SBL No. 91.16-1-19) and the southern 0.52 acres of a 1.67-acre parcel located at 3466 Genesee Street, Cheektowaga, New York (SBL No. 91.16-1-20, see Figure 2). Including the applicable portions of both parcels, the controlled area of the Site totals an approximate 0.70-acre area and is bounded by residential properties and the remaining portion of the 3466 Genesee Street parcel not included within the Site which extends to New York State Route 33 (Kensington Expressway) to the north, Genesee Street to the south, commercial and residential properties to the west, and commercial properties to the east.

The Site consists of two (2) attached buildings totaling approximately ±11,000 square feet, asphalt parking areas, and grassy areas. The smaller building is located on the 3460 Genesee Street parcel and is a two-story, brick-front block building with a store front facing Genesee Street and office space on the second floor. The larger building is located on the 3466 Genesee Street parcel and is a one-story, brick-front block building warehouse/storage area which formally housed dry-cleaning operations. The asphalt parking

areas are located along Genesee Street to the south of the buildings and off Colden Court to the west of the buildings.

1.2 Remedial History

NYSDEC conducted a Soil Vapor Intrusion (SVI) Investigation using State Superfund monies in December 2011 which was performed by Groundwater & Environmental Services, Inc (GES). The results of the SVI were later summarized in the Remedial Investigation/Feasibility Study (RI/FS) Report (Ref. 4). Eight (8) homes located along Colden Court, directly northwest of the Site, were sampled for SVI.

Tetrachloroethene (PCE) and cis-1,2-Dichloroethene (1,2-DCE) were detected at elevated levels in one (1) house that required mitigation. This house is the second closest house to the Site. The owner of the first closest house refused access, so SVI sampling was not completed at this location. A sub-slab depressurization system (SSDS) was installed in the second closest house to mitigate SVI.

The NYSDEC performed a RI/FS at the Site and off-site locations.

The RI found the following with respect to pre-remediation contaminant concentrations in the subsurface:

- Three target remediation zones (TRZ's) were identified:
    - TRZ-1: the asphalt parking area to the west of Site buildings; TRZ-1 was identified as a source zone.
    - TRZ-2: beneath the Site buildings; TRZ-2 was identified as a permeable water-bearing zone impacted by contaminants from TRZ-1 and/or TRZ-3.
    - TRZ-3: the grassy strip to the east of the Site buildings; TRZ-3 was also identified as a source zone.
    - The locations of the target remediation zones are shown on Figure 2.
- Soil Vapor – Sub-slab samples of soil vapor from within the two Site buildings detected the presence of PCE at 150 to 190 micrograms per cubic meter (ug/m3), and trichloroethene (TCE) in one sample at 5.4 ug/m^3.
- Unsaturated Soil – PCE, 1,2-DCE and/or vinyl chloride (VC) were detected in unsaturated soil on Site at concentrations exceeding NYSDEC 6 NYCRR Part 375-6.8(b) Restricted use Commercial Soil Cleanup Objectives (CSCOs) at two locations: one in TRZ-3 and the other in TRZ-1.
- Groundwater – Groundwater was contaminated with chlorinated volatile organic compounds (cVOCs) in all three TRZ's. The contaminants include: PCE, TCE, 1,2-DCE and VC. In TRZ-1, the highest concentration was 1,2-DCE at 22,000 micrograms per liter (ug/L) at well MW-6. In TRZ-3, the highest concentration was 1,2-DCE at 15,000 ug/L at well MW-4. Both results were from 2013. Samples from these two wells collected in 2015 showed diminished concentrations of cVOCs: the sample from well MW-6 contained 1,2-DCE at 8,000 ug/L, and well MW-4 had 1,2-DCE at 1,100 ug/L.

Based on the findings of the RI/FS, the Department selected a remedy. The elements of the site remedy were outlined in the Department-issued Record of Decision (ROD) dated March 2014 (Ref. 5) and included the following:

- Excavation and off-site disposal of unsaturated soils from TRZ-1 & -3;
- Addition of soil amendment/reactant to the excavation backfill to treat the groundwater contamination on and off the Site;
- Installation of an SSDS in the on-Site Buildings;
- Continued operation and maintenance of the SSDS installed in the home located off-Site;
- Removal of contaminated sediment from a sump and connected floor drains and sewers within the larger on-Site Building and the closure and cementing in of the sump; and
- Imposition of an institutional control in the form of an environmental easement that will outline and enforce restrictions on the future use of the Site and require compliance with a NYSDEC-approved Site Management Plan (SMP).

After the ROD was issued, Benchmark Environmental Engineering and Science, PLLC (Benchmark, who was acquired by Roux in July 2023) on behalf of J&M, implemented a Department-approved Soil Vapor Extraction System (SVE) Pilot Test Work Plan dated April 18, 2016 (Ref. 6) to examine the feasibility of SVE as a potential remedial alternative to excavation and off-site disposal as selected in the ROD.

The SVE pilot-test was completed in July 2016 and the Report on SVE Pilot-Scale Treatability Study and Proposed Alternate Remedy for the Former Doro Dry Cleaners Site dated August 2016 (Ref. 7) was prepared which documented the pilot-scale treatability test successfully demonstrated the effectiveness of SVE and provided fundamental design parameters for the proposed SVE system.

The Department issued an Explanation of Significant Difference (ESD, Ref. 8) on March 20, 2017, selecting SVE in lieu of the excavation and off-site disposal of unsaturated soil from TRZ-1 and 3, together with the injection of an amendment into the saturated soil to treat groundwater in-situ in lieu of adding amendment to the excavation backfill. A Remedial Action Work Plan (RAWP, Ref. 3) was prepared in accordance with the remedy as set forth in the ROD as modified by the ESD, which was implemented and documented in the Final Engineering Report (FER, Ref. 9).

Benchmark completed remedial activities at the Site in accordance with the NYSDEC-approved RAWP. The following are the components of the selected remedy as implemented:

1. Unsaturated subsurface soil in TRZ-1 and TRZ-3 were treated in-place by SVE (see Figure 3).
2. Amendments were injected via direct-push methods directly into the shallow unconfined groundwater above bedrock in TRZ-1 and TRZ-3 (see Figure 4) followed by groundwater monitoring to assess the performance and effectiveness of the remedy.
3. The sub-slab depressurization systems (SSDS), one in each of the existing on-site buildings and one in an off-site building, will continue to be operated and maintained. A determination will be made if soil vapor intrusion (SVI) sampling of one additional off-site building is appropriate, if and when the building owner requests that it be evaluated (This is in reference to an off-site residential structure which denied access to NYSDEC during the 2011 soil vapor intrusion assessment that was completed). The SSDS systems that have been installed were completed

by others with oversight from NYSDEC prior to Roux/Benchmark or J&M involvement in the Site.

4. Standing water and sediment in a floor sump in one of the on-site buildings and in the floor drains and sewers connected to that sump were removed and disposed of off-site; and the sump was closed and cemented in (see Figure 5).
5. Development and implementation of a SMP which includes:
    a. An Institutional Controls and Engineering Controls (ICs/ECs) Plan that identifies all use and engineering controls to actively or passively contain, stabilize, or monitor remaining contaminants; restrict the movement of remaining contaminants; and/or eliminate potential exposure pathways to remaining contaminants. Institutional controls at the Site will include groundwater use restrictions and restriction of the use of the Site to commercial and industrial uses.
    b. Operation and Maintenance Plan that describes the measures necessary to operate and maintain Engineering Controls at the Site, including the SSDSs.
    c. Excavation Work Plan to address proper soil/fill handling associated with future intrusive activities at the Site.
    d. Soil Vapor Intrusion Plan to assess the need for or install an SSDS for any new building to be constructed on or adjacent to the Site, including the one additional off-site building, where the building owner previously declined that it be evaluated, should the building owner request that it be evaluated, or in the alternative the installation, operation, and maintenance of a SSDS in any such building.
    e. Site Monitoring Plan that includes: provisions for groundwater monitoring and Site-wide inspection to assure that the ICs/ECs have not been altered and remain effective, including a schedule of monitoring and frequency of submittals to the Department, and a provision for further investigation under the site buildings if and when they may be demolished to refine the understanding of the nature and extent of contamination remaining at the Site; and,
6. Environmental Easement filed with Erie County that, among other things, requires periodic certification of ICs and ECs to the Department, restricts the use of the Site to commercial and industrial uses, restricts the use of groundwater without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or Erie County Department of Health, requires compliance with the SMP, and provides the NYSDEC and NYSDOH access to the Site.

Details on the remedial elements completed can be found in the FER and SMP.

1.3 Purpose/Scope

The SMP requires, among other things, periodic inspections, and certification that the ICs/ECs implemented at the Site and off-site residence 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 in February 2021.

2. Site Overview

The portion of the Site that has remaining contamination, and which was made subject to an EE granted to the Department by Elakor, is approximately 0.70 acres and consists of the entire 0.18-acre parcel at 3460 Genesee Street (SBL: 91.16-1-19) and the southern 0.52 acres of the 1.67-acre parcel at 3466 Genesee Street (SBL: 91.16-1-20). There are two (2) attached buildings, totaling approximately ±11,000 square feet on the 0.7-acre portion of the Site are subject to the EE.

The Site is bounded by residential homes and remaining portion of the 3466 Genesee Street parcel not included within the EE to the north, Genesee Street to the south, commercial use to the east, and commercial use and the Colden Court residences to the west. The property is zoned for commercial use and subject to its zoning, can be used for commercial and/or industrial uses as described in the EE.

The Site is being used by the Buffalo Miata Club for vehicle storage and meetings; and storage of special equipment. Roux was not allowed access into the building for observation by the Site owner (Elakor Inc.) citing the storage of special equipment, at the time of the annual site inspection completed as part of the PRR, as discussed in Section 4.3. NYSDEC was notified of the situation at that time. If access to the inside of the buildings is denied by Site owner during any future inspections, which thereby prevents the inspection of the on-site SSDS, Roux will notify NYSDEC to determine next steps to obtain access.

Since the COC was issued in February 2021, the use of the areas surrounding the Site have not changed.

2.1 Interim Remedial Measures (IRM)

Prior to J&M's involvement, a SSDS was installed one off-site residential home (in 2011) near the Site and one SSDS was installed in each of the two (2) Site buildings (in 2014).

Off-Site SSDS

One (1) SSDS was installed in a nearby residential home by NYSDEC under the Superfund Program (Standby Contract C100900, Callout #119759). The SSDS was installed by Mitigation Tech under contract to GES, who documented the work in a report titled Soil Vapor Intrusion Investigation Summary. The report states "At the completion of the installation, a sub-slab confirmatory test was conducted. Results indicated a minimum pressure differential of 0.100 inches of water column (inches WC) across the basement between the sub-slab and ambient air pressures in the basement. This is in excess of the minimum design standard of 0.01 inches WC of negative pressure and indicates a strong influence over the basement environment."

In July 2023, the original vacuum fan on the SSDS was replaced due to a "percolating noise" heard by the property owner in the vicinity of the lexan-covered sump during wet periods of the year. A fan (Fantech RN1) producing less vacuum was installed. During this PRR inspection period, a visit to the property with NYSDEC and MitigationTech was completed to observe conditions and collect vacuum reading from beneath the slab. The vacuum test results were adequate to NYSDEC's satisfaction, as further discussed in Section 4.4.1.

On-Site SSDSs

Two (2) SSDSs were installed within the Site buildings (one in each building) by Elakor's subcontractor, Envirosafe Inspections & Consulting, in 2014 with documentation sent to NYSDEC. NYSDEC prepared a

letter dated March 2, 2015, which states "… the sub-slab depressurization systems installed beneath the buildings on the subject site appear to be operating effectively at lowering the soil vapor pressure beneath the slab floors and venting any contaminant vapors that may be collecting there to the outdoors. The installation of these systems satisfies one of the elements of the site remedy as outlined in the Record of Decision, i.e. the potential for contaminant vapors to enter the buildings has been mitigated."

3. Remedy Performance

The following activities have been completed at the Site during this reporting period from June 8, 2023 through June 8, 2024:

- Semi-annual groundwater monitoring was completed in November 2023, and April 2024, as outlined in the SMP.
- A site-inspection on the exterior of the Site was completed on May 21, 2024. Roux was not allowed access to the building interior.
- Roux was provided photographs from the building owner on May 16th of the manometer gauges for the two (2) SSDSs within the building. The manometer gauge readings are consistent with previous years and appear to be functioning properly.
- An inspection of the off-site SSDS was completed on March 13, 2024 with NYSDEC and the SSDS appeared to be functioning properly. The vacuum fan was replaced in July 2023 and two (2) sub-slab vacuum measurements were collected beneath the basement slab on March 13th. The measurements were acceptable and documented on the Daily Field Activity Log in Appendix C. The owner indicated that since the vacuum fan was changed, there was only one time he heard the SSDS making a noise (e.g., percolating sound) during a wet period of the year, and it was much quieter.

The SVE system remained shut down during the reporting period with NYSDEC permission, which has been shut down since December 2021, and is discussed further in Section 4.4.2.

The northern garage portion of the 3466 Genesee Street building and exterior parking lot is used for automobile and special equipment storage. The remainder of the Site buildings is reportedly vacant except for a portion of the 3460 Genesee Street building is being used by the Buffalo Miata Club for storage and meetings. The Site complies and ECs are functioning as intended in accordance with the SMP. Further remedy performance monitoring will be completed as required by the SMP.

The completed IC/EC Certification forms and site photographs are included in Appendices A and B, respectively.

4. Site Management Plan

A site-wide SMP was prepared for the Site and approved by the Department in December 2019. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since contaminated soil, groundwater, and soil vapor remains beneath the Site, ICs/ECs are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all ICs/ECs at the Site. At the time of the site inspection, the Site is compliant with all institutional and engineering control plan requirements.

4.1.1 Institutional Controls (ICs)

- The Site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the EE. Site restrictions that apply to the Site are:
- The property may only be used for commercial and industrial uses, consistent with zoning.
- All ECs must be operated and maintained as specified in the SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The remedial party (J&M) or Site owner must complete and submit to the Department a periodic certification of ICs and ECs in accordance with 6 NYCRR Part 375-1.8(h)(3); and

4.1.2 Engineering Controls (ECs)

Three (3) ECs have been implemented for the Site:

- Two SSDS for the Site buildings, one SSDS for the off-site residence which NYSDEC installed, and for the other off-site building should the owner request to have the property sampled in the future and exposures related to SVI be found;
- A SVE system to address unsaturated soil impacts (with permission of the NYSDEC the SVE system has been offline since December 2021 with NYSDEC permission); and
- A cover system over TRZ-1, TRZ-2, and TRZ-3, which although one was not required by the ROD when the remedy was excavation of impacted materials, is required to be in place to prevent contact with any remaining contamination after the ESD modified the ROD remedy to SVE to address unsaturated soil/fill and injection of an amendment into saturated soils to address impacted groundwater.

A Health and Safety Plan (HASP) and associated Community Air Monitoring Program (CAMP) were prepared for the Site (included in the SMP) and are required for sites with ECs.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the NYSDEC-approved SMP for the Site. The EWP provides guidelines for the management of soil/fill material during intrusive actives with the potential to expose or disturb remaining contamination. Future intrusive work that will penetrate the cover and/or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, must be performed in compliance with the EWP.

4.2.1 Site Activities

No significant Site activities occurred during the past reporting period.

A pile of granular debris was observed on the north side of the building that was reportedly generated from cleaning the roofs of the buildings. According to the custodian of the building, he shoveled off the roof in 2023 and placed the material on the north side of the building.

A portion of the 3460 Genesee Street building is being used by the Buffalo Miata Club for vehicle storage and meetings; and the storage of special equipment.

The road boxes for monitoring wells MW-5 and MW-7 were replaced in February as recommended in the July 2023 PRR.

4.2.2 Exported Materials

No materials were exported from the Site during the past reporting period.

4.2.3 Imported Materials

No materials were imported to the Site during the part reporting period except for the concrete used to replace road boxes at MW-5 and MW-7, which did not require NYSDEC approval.

4.3 Annual Inspection and Certification Program

The Annual Certification includes a Site Inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to verify that:

- the ICs/ECs are in place, effective, performing as designed (The SVE system has been offline since December 2021 with NYSDEC permission)
- nothing has occurred that would impair the ability of the controls to protect the public health and environment,
- nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls, and
- access is available to the Site to evaluate continued maintenance of such controls (Access was not granted by the Site owner to allow Roux to inspect the two on-site building SSDSs).

Inspection of the exterior of the Site and off-site SSDS were conducted by Mr. Christopher Boron. P.G. of Roux Environmental Engineering and Geology, DPC, a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12, on May 25, 2024 and March 13, 2024, respectively. Roux was not allowed access to the interior of the on-site buildings.

At the time of the inspection, the exterior Site features appeared unchanged since the COC was issued. A pile of granular debris material was observed on the north side of the building that, according to the custodian of the building was generated by him when cleaning off the roofs of the buildings. He reportedly shoveled off the roofs in 2023 and placed the material on the north side of the building.

The institutional controls and engineering controls employed on the Site are unchanged from the original design, with the exception that the SVE system has been shut down since December 2021 with NYSDEC permission, as further discussed in Section 4.4.2

Appendix A includes the completed Institutional and Engineering Controls Certification Form. Appendix B includes photographs taken during the Site inspection.

4.4 Monitoring and Sampling Plan

The Monitoring and Sampling Plan specifies the methods used for:

- On- and Off-Site SSDS performance monitoring.
- SVE System monitoring and sampling.
- Groundwater sampling.
- Site-wide inspection.
- Post-remedial monitoring and sampling to discontinue SVE system and groundwater sampling.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

4.4.1 SSDS Monitoring

The two on-site and one off-site SSDSs require monthly micromanometer readings be recorded by the property owners and systems inspection annually. On May 16th, Roux received photographs of the manometer gauges for the two on-Site systems from Mr. Basile Korbut, Elakor Inc. (building owner).

On March 13, 2024, Roux inspected the one off-site SSDS with NYSDEC, at which time sub-slab communication testing was also completed by Mitigation Tech to verify that the new fan unit installed in July 2023 provided adequate sub-slab vacuum coverage of the basement slab. Field noted from the testing are provided in Appendix C. NYSDEC was satisfied with the results, which were in excess of the 0.004 inches of H2O minimum requirement. The three SSDSs appear to be functioning properly.

SSDS Location	Micromanometer Reading (inches H2O)
Off-Site Residence	1 inch
On-Site (3460 Genesee Bldg)	1 inch
On-Site (3466 Genesee Bldg)	1 inch

4.4.2 SVE System Operation & Monitoring

The SVE system has been shut down since December 2021 with NYSDEC permission. It was in operation from May 2018 to December 2021, except during maintenance shutdowns, during significant rain events (the Town of Cheektowaga requested shutdowns to halt condensate discharges during rain events to avoid exacerbating infiltration and inflow problems), and during winter months (i.e., the system operated for 35 of the 44 months in that period). Prior to shut down, it has been estimated that approximately 572 pounds[1] of cVOCs have been removed by the SVE system through the end of December 2021, which includes the pilot test completed in July 2016.

The SVE system was shut down in December 2021 due to winter weather. J&M requested to keep the SVE system shut down after the winter shutdown (2021/2022), prior to completing the May 2022 semi-annual groundwater sampling and implementing Soil Sampling Work Plan (Ref. 10) which was completed in May 2022.

Based on the results of the Soil Sampling Work Plan (details are provided in the July 2022 Periodic Review Report) and recent groundwater results, NYSDEC approved leaving the SVE system off until after the April 2024 groundwater sampling event, at which time the SVE system restart would be re-evaluated. Based on the results of the April 2024, as discussed below in Section 4.4.3, J&M is requesting the SVE system remain off, the SVE trailer and carbon vessels be demobilized from the Site, and the remainder of the system (piping and SVE wells) be decommissioned.

[1] The estimated mass of contaminants removed by the SVE system was based on the correlation established between the influent air samples collected during the pilot study and initial startup, the corresponding influent air PID readings collected at the time of sample collection, and the estimated air flow of the system.

4.4.3 Groundwater Sampling and Analysis

Semi-annual groundwater sampling for VOC analysis has been performed since November 2017 prior to the COC being issued for the Site in February 2021. The results of the groundwater sampling are summarized on Tables 1 and 2.

A baseline sampling event was completed in November 2017 and the groundwater amendment injections as outlined in the RAWP, were completed in February 2018. Therefore, the analytical results from May 2018 on are considered post-remedial results. Two groundwater sampling events were completed during this reporting period (November 2023 and April 2024) and NYSDEC requested per- and polyfluoroalkyl alkaline substances (PFAS) samples also be collected from MW-5 and MW-7 during the April 2024 sampling event. The results are further discussed by monitoring location below.

Although cVOCs are still present in 3 of the 4 monitoring wells sampled (MW-4, -5, and -6) at concentrations above their respective Class GA Ambient Water Quality Standards and Guidance Values (GWQS), the groundwater amendment injections were successful in addressing the cVOC groundwater contamination in the treatment zone as indicated by the substantial reduction in cVOCs concentrations. This substantial reduction in cVOCs is consistent with the Groundwater Remedial Action Objective (RAO) for Environmental Protection, as stated in Section 2.2.4 of the SMP and Section 6.5 of the ROD, which is to restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practical.

A summary of the analytical results by location is provided below.

MW-4: A 99% reduction in total cVOCs has occurred at MW-4 (located within TRZ-3). November 2017 total cVOC concentration was approximately 21,000 ug/l and the results of the most recent sampling events, November 2023 and April 2024 were 88 ug/l and 282 ug/l, respectively. Although there was an increase in cVOCs detected during the April 2024 sampling event, further groundwater monitoring in November 2024 will determine if this is anomalous, as total cVOCs in the past 11 monitoring events has had an average concentration approximately 28 ug/l.

MW-5: At MW-5 (cross-gradient location and outside treatment zones) since the November 2017 baseline event (79.1 ug/l), total cVOC concentrations have fluctuated between 27.3 ug/l (November 2019) and 250 ug/l (November 2022) with an average cVOC concentration of 100.7 ug/l over the 13 sampling events since the baseline was completed. The total cVOC concentration detected in the most recent sampling events in November 2023 and April 2024 were 207.6 ug/l and 201 ug/l. In the November 2017 baseline results, PCE had the highest concentration and TCE and 1,2-DCE lower concentrations. In the past seven (7) sampling events (June 2021 through April 2024), 1,2-DCE has the highest concentration and PCE and TCE lower concentration, indicating breakdown is occurring.

MW-6: The reduction in total cVOCs at MW-6 (located within TRZ-1) is about 98% since the groundwater injections were completed. November 2017 total cVOC concentration was approximately 8,100 ug/l and the results of the most recent sampling events, in November 2023 and April 2024 were 223 ug/l and 123 ug/l, respectively. This significant level of reduction has been observed since November 2018 (approximately 5 years).

MW-7: At MW-7 (downgradient location and outside treatment zones) since the November 2017, total cVOC concentrations have fluctuated between 1.44 ug/l (April 2023) and 26.1 ug/l (May 2020) with an average concentration of 9 ug/l over the last 13 sampling events. No VOCs were detected above their respective groundwater standards since May 2022 sampling event, with the exception of 1,2-DCE which was detected at 5.9 ug/l in November 2022 event, slightly above its GWQS of 5 ug/l. Total cVOCs in November 2023 was 4.14 ug/l and in April 2024 was 2.8 ug/l.

NYSDEC also requested that per- and polyfluorinated substance (PFAS) sampling be completed at MW-5 and MW-7 during the April 2024 sampling event. The results have been included on Table 2. MW-5 had 54 nanograms per liter (ng/l) PFOA and 29ng/l PFOS, while MW-7 had 183 ng/l PFOA and 278 ng/l PFOS which is consistent with the previous PFAS sampling events completed in March 2018 and December 2020.

Appendix D includes field notes and laboratory analytical data packages from the two groundwater sampling events covered under this reporting period. Graphs of the total cVOC groundwater data have also been included in Appendix D depicting the significant groundwater concentration improvement in TRZ-1 (MW-6) and TRZ-3 (MW-4).

Groundwater contour maps for the groundwater elevations measured as part of the November 2023 and April 2024 sampling are shown on Figures 6 and 7, respectively.

4.5 Operation & Maintenance Plan

The O&M Plan addresses operation and maintenance for the SVE system. The SVE system has been offline since December 2021 and no OM&M of the SVE system has been necessary. J&M intends to request, in a separate report justifying the decommissioning of the SVE system, that (a) the SVE system remain off permanently, (b) the SVE trailer and carbon vessels be demobilized from the Site, and (c) the piping and SVE wells be decommissioned.

5. Conclusions and Recommendations

Conclusions

Based on our observations during the March 13, 2024 (off-site residence) and May 21, 2024 (on-site) exterior inspections, completed during this PRR reporting period, the Site is compliant with the IC/EC requirements.

Based on the results of the semi-annual groundwater monitoring completed this period; and results of the SVE system operation, and Soil Sampling Work Plan work previously completed, we offer the following conclusions:

- The groundwater amendment injections have been successful in addressing the groundwater contamination in the treatment zones as indicated by the substantial reduction in cVOCs in the groundwater.
- cVOC mass removal prior to the December 2021 shutdown of the SVE system indicates an asymptotic and/or diminishing mass removal of cVOCs for 2021 with approximately 50 pounds removed in 2021 compared to 259 pounds in 2019 and 100 pounds in 2020. The influent soil vapor (untreated) PID readings prior to shutdown have generally been less than 1 ppm since mid-September 2021 with an average measurement of 0.7 ppm for the last 3.5 months of operation. This indicates the SVE system was experiencing diminishing mass removal rates of cVOCs.
- The monitoring well road boxes of MW-5 and MW-7 have been replaced.
- The noise being perceived from the off-site Residence's SSDS (e.g., percolating sound) during wet periods of the year was addressed by changing the vacuum fan to a fan with less vacuum. Vacuum measurements collected from beneath the slab in March 2024 confirmed acceptable measurements and the engineering control is functioning properly.

Recommendations

The granular debris pile generated from the roof of the buildings by the building owner should be disposed of by the building owner.

Based on the results of the soil sampling completed in 2022, and the November 2023 and April 2024 groundwater sampling events, Roux has recommended to J&M that a request be made to NYSDEC that the SVE system remain off permanently, the SVE trailer and carbon vessel be demobilized, and the associated piping and extraction wells be decommissioned.

6. Declaration/Limitation

Personnel under direct supervision of Roux conducted the annual site inspection for BCP Site No. C915238, located in Cheektowaga, New York, according to generally accepted practices. This report complied with the scope of work provided to J&M Walden Holdings Corp. by Roux.

This report has been prepared for the exclusive use of J&M Walden Holdings Corp. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon by NYSDEC and J&M Walden Holdings Corp. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Roux.

References

1. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.
2. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Site Management Plan, Former Doro Dry Cleaners Site, State Superfund Project, Site No. 915238, Cheektowaga, Erie County.* August 2020.
3. Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC. *Remedial Action Work Plan, Former Doro Dry Cleaners Site, State Superfund Project, Cheektowaga, Erie County, Site No. 915238,* October 2017.
4. Camp Dresser McKee & Smith, *Final Remedial Investigation/Feasibility Study Report, Former Doro Cleaners (Site No. 915238) Cheektowaga, New York* prepared for New York State Department of Environmental Conservation February 2014.
5. Division of Environmental Remediation New York State Department of Environmental Conservation. *Record of Decision, Former Doro Dry Cleaners, State Superfund Project, Cheektowaga, Erie County, Site No. 915238,* March 2014.
6. Benchmark Environmental Engineering & Science, PLLC, Soil Vapor Extraction (*SVE) Pilot Test Work Plan, Former Doro Dry Cleaners, Site No. 915238*, April 18, 2016.
7. Benchmark Environmental Engineering & Science, PLLC, *Report on Soil Vapor Extraction Pilot-Scale Treatability Study and Proposed Remedy, Former Doro Dry Cleaners Site, State Superfund Project, Cheektowaga, Erie County, Site No. 915238.* August 2016.
8. New York State Department of Environmental Conservation Division of Environmental Remediation. *Explanation of Significant Difference Former Doro Dry Cleaners Site, Town of Cheektowaga, Erie County, Site No. 915238.* March 2017.
9. Benchmark Environmental Engineering & Science, PLLC, *Final Engineering Report, Former Doro Dry Cleaners Site, State Superfund Project, NYSDEC Site No. C915238, Cheektowaga, Erie County, Site No. 915238.* August 2020.
10. Benchmark Environmental Engineering & Science, PLLC, *Revised Soil Sampling Work Plan for SVE System Termination Assessment, Former Doro Dry Cleaners, Site No. C915238, 3460-3466 Genesee Street, Cheektowaga, Erie County, Inactive Hazardous Waste Disposal Site Class 4.* March 23, 2022.

TABLES

TABLE 1
SUMMARY OF VOC GROUNDWATER ANALYTICAL RESULTS
FORMER DORO CLEANERS
3460-3466 GENESEE STREET
CHEEKTOWAGA, NEW YORK

Parameter	GWQS[1]	MW-04																																					
		8/14/2013[2]	Q	6/2/2015[3]	Q	11/8/2017	Q	5/16/2018	Q	11/19/2018	Q	5/22/2019	Q	11/22/2019	Q	5/11/2020	Q	12/17/2020	Q	6/24/2021	Q	11/12/2021	Q	5/17/2022	Q	11/2/2022	Q	4/27/2023	Q	11/21/2023	Q	4/25/2024	Q
Volatile Organic Compounds (VOCs) - ug/L																																							
Tetrachloroethene	**5**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
Benzene	**1**	ND		ND		ND		ND		ND		ND		0.69	J	**1.3**		**1.2**		**1.1**		**1.2**		0.88		**1.2**		0.82		0.73		**1.1**							
Toluene	**5**	ND		ND		ND		ND		ND		ND		ND		0.72	J	0.99	J	ND		1.4	J	1.4	J	**17**		**7**		**5.4**		**5.1**							
Vinyl Chloride	**2**	**3,500**		**280**		**4,900**		**3,600**		**9**		**15**		**11**		**6**		**2.1**		**2.7**		**4.1**		1.7		**5.4**		**9.5**		**23**		**100**							
2 - Butanone (MEK)	**50**	ND		ND		ND		**450**	J	ND		ND		ND		3.2	J	47		15		4.8	J	ND		5.3		ND		ND		ND							
1,1-Dichloroethene	**5**	ND		3.8		**56**		**17**	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.2	J						
Trichloroethene	**5**	ND		**0.95**	J	**86**		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
cis-1,2-Dichloroethene	**5**	**15,000**		**1,100**		**16,000**		**6,500**		**24**		**23**	J	**16**		**30**		**10**		**11**		**14**		**5.8**		**11**		**7.2**		**65**		**180**							
trans-1,2-Dichloroethene	**5**	ND		4.9		ND		ND		ND		ND		ND		1.5	J	1.4	J	ND		0.89	J	ND		0.82	J	ND		ND		2.2	J						
Acetone	**50**	ND		ND		ND		ND		2.1	J	20	J	9.1	J	3.2	J	**120**		6.8	J	5.2		7		1.9	J	6.8		3.5	J	4.4	J						
2-Hexanone	**50**	ND		ND		ND		ND		ND		ND		ND		ND		ND		**200**		**110**		18		**56**		1.8	J	1.2	J	ND							
Total Xylene	**50**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.87	J	0.88	J	1.1	J	0.81	J	ND		0.85	J						
Total cVOCs		18,500		1,390		21,042		10,117		33.0		38.0		27.0		37.5		13.5		13.7		19.0		7.5		16.4		16.7		88.0		282.4							
Total VOCs		18,500		1,390		21,042		10,567		35.1		58.0		36.8		45.9		182.7		236.6		142.5		35.7		99.7		33.9		98.8		293.9							

Parameter	GWQS[1]	MW-05																																					
		8/13/2013[2]	Q	6/1/2015[3]	Q	11/8/2017	Q	5/16/2018	Q	11/19/2018	Q	5/22/2019	Q	11/22/2019	Q	5/11/2020	Q	12/17/2020	Q	6/24/2021	Q	11/12/2021	Q	5/17/2022	Q	11/2/2022	Q	4/27/2023	Q	11/21/2023	Q	4/25/2024	Q
Volatile Organic Compounds (VOCs) - ug/L																																							
Tetrachloroethene	**5**	**27**		**52**		**59**		**45**		**28**		**20**		**22**		**25**		**29**		**18**		**35**		**35**		**45**		**31**		**31**		**70**							
Vinyl Chloride	**2**	ND		ND		1.6		0.25	J	ND		ND		ND		ND		0.81	J	1		0.61	J	0.34	J	**16**		0.25	J	**12**		0.77	J						
2 - Butanone (MEK)	**50**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
1,1-Dichloroethene	**5**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.23	J	0.17	J	0.55		0.44	J	0.58		0.53							
Trichloroethene	**5**	**8.9**		**12**		**12**		**9**		4.3		**5.5**		3.6		**5.9**		**11**		**9.2**		**10**		**7.1**		**39**		**18**		**24**		**30**							
cis-1,2-Dichloroethene	**5**	**4.9**		**15**		**6.5**		**6**		2.7		3.3		1.7	J	**5.2**		**22**		**27**		**62**		**45**		**150**		**100**		**140**		**99**							
trans-1,2-Dichloroethene	**5**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.75	J	ND		0.76	J	0.73	J						
Methyl acetate	**--**	ND		ND		ND		ND		ND		ND		ND		0.3	J	ND		ND		ND		ND		ND		ND		ND		ND							
Acetone	**50**	ND		ND		ND		1.6		ND		ND		3.6	J	1.7	J	ND		2.6	J	1.7	J	1.8	J	ND		5.6		2.6	J	3.6	J						
2-Hexanone	**50**	ND		ND		ND		ND		ND		ND		ND		ND		ND		1.1	J	ND		ND		ND		ND		ND		ND							
Total cVOCs		40.8		79.0		79.1		60.3		35.0		28.8		27.3		36.1		62.8		55.2		107.6		87.4		250.0		149.7		207.6		201.0							
Total VOCs		40.8		79.0		79.1		61.9		35.0		28.8		30.9		38.1		62.8		58.9		109.5		89.4		251.3		155.3		210.9		204.6							

Parameter	GWQS[1]	MW-06																																					
		8/14/2013[2]	Q	6/1/2015[3]	Q	11/8/2017	Q	5/16/2018	Q	11/19/2018	Q	5/22/2019	Q	11/22/2019	Q	5/11/2020	Q	12/17/2020	Q	6/24/2021	Q	11/12/2021	Q	5/17/2022	Q	11/2/2022	Q	4/27/2023	Q	11/21/2023	Q	4/25/2024	Q
Volatile Organic Compounds (VOCs) - ug/L																																							
Tetrachloroethene	**5**	ND		**13**		ND		ND		ND		ND		ND		ND		ND		ND		**10**		**4**		**8.6**		4.1		0.55		0.26	J						
Vinyl Chloride	**2**	ND		**39**		**4,700**		**710**		**240**	D	**440**		**69**		**32**		**150**		**22**		1.9		**5**		**5**		**62**		**120**		**94**							
2 - Butanone (MEK)	**50**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
1,1-Dichloroethene	**5**	ND		**7.4**	J	4.8	J	1.8	J	0.19	J	ND		ND		ND		0.37	J	ND		0.25	J	0.42	J	0.87		0.8		0.46	J	0.27	J						
Trichloroethene	**5**	ND		**9.9**		ND		ND		ND		ND		ND		ND		0.33	J	ND		**5.2**		**3.2**		**330**	D	2.9		1.6		0.76							
cis-1,2-Dichloroethene	**5**	**22,000**		**8,000**		**3,400**		**990**		**120**		**69**		**20**		**19**		**120**		**20**		**44**		**93**		**5.4**		**150**		**100**		**28**							
trans-1,2-Dichloroethene	**5**	ND		**19**		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1		ND		ND		ND							
o-xylene	**5**	ND		ND		ND		ND		ND		ND		ND		ND		0.91	J	ND		ND		ND		ND		ND		ND		ND							
Acetone	**50**	ND		ND		ND		ND		ND		ND		4.3	J	ND		ND		2	J	ND		3.2	J	1.5	J	5.5		2.6	J	3.8	J						
Total cVOCs		22,000		8,088		8,105		1,702		360		509		89		51		271		42		61		106		350		220		223		123							
Total VOCs		22,000		8,088		8,105		1,702		360		509		93		51		272		44		61		109		352		225		225		127							

Parameter	GWQS[1]	MW-07																																					
		8/13/2013[2]	Q	6/1/2015[3]	Q	11/8/2017	Q	5/16/2018	Q	11/19/2018	Q	5/22/2019	Q	11/22/2019	Q	5/11/2020	Q	12/17/2020	Q	6/24/2021	Q	11/12/2021	Q	5/17/2022	Q	11/2/2022	Q	4/27/2023	Q	11/21/2023	Q	4/25/2024	Q
Volatile Organic Compounds (VOCs) - ug/L																																							
Tetrachloroethene	**5**	**9.6**		1.4	J	ND		0.56		0.42	J	1.3		0.29	J	1		1.6		ND		0.34	J	ND		ND		ND		ND		ND							
Vinyl Chloride	**2**	**44**		**27**		1.6		ND		0.93	J	0.51	J	0.91	J	**4.7**		1.5		1.3		**3.3**		0.36	J	0.43	J	0.24	J	0.64	J	1.1							
2 - Butanone (MEK)	**50**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
1,1-Dichloroethene	**5**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
Trichloroethene	**5**	**6.4**		2		ND		0.39	J	0.24	J	1	J	0.83	J	1.4		1.5		0.43	J	0.74		0.22	J	0.33	J	ND		0.19	J	ND							
cis-1,2-Dichloroethene	**5**	**130**		**80**	J	**5.7**		1.8	J	**5.4**		3.9		**14**		**19**		**11**		**8.8**		**8.9**		2	J	**5.9**		1.2	J	3.5		1.7	J						
trans-1,2-Dichloroethene	**5**	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND							
Methyl acetate	**--**	ND		ND		ND		ND		ND		ND		ND		0.26	J	ND		ND		ND		ND		ND		ND		ND		ND							
Acetone	**50**	ND		3.8	J	2.3	J	ND		1.8	J	ND		3.6	J	ND		ND		3.3	J	ND		2.2	J	1.5	J	6.6		2.8	J	3.6	J						
Total cVOCs		190		110		7.30		2.75		6.99		6.71		16.03		26.10		15.60		10.53		13.28		2.58		6.66		1.44		4.14		2.80							
Total VOCs		190		114		9.60		2.75		8.79		6.71		19.63		26.36		15.60		13.83		13.28		4.78		8.16		8.04		7.13		6.40							

Notes:

1. Regulatory limits are NYSDEC Class "GA" Groundwater Quality Standards (GWQS) as published in NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
2. Data presented in table from August 2013 is from the Final Remedial Investigation/Feasibility Study Report prepared by CDM Smith, dated February 2014.
3. Data presented in table from June 2015 is from the Pre-Design Investigation Report prepared by CDM Smith, dated July 2015.
4. Only those compounds detected above the laboratory reporting limit are presented in this table.

Definitions

J = Indicated that analyte detected at a level less than the Reporting Limit and greater than or equal to the Method Detection Limit.

ND = Parameter not detected above laboratory detection limits.

ug/L =micrograms per liter; parts per billion.

-- = No standard or guidance value is available.

BOLD = Result exceeds GWQS.

ROUX

TABLE 2
SUMMARY OF EMERGENT CONTAMINENTS GROUNDWATER ANALYTICAL RESULTS
FORMER DORO CLEANERS
3460 - 3466 GENESEE STREET
CHEEKTOWAGA, NEW YORK

Parameter	GWQS[1]	Monitoring Well											
		MW-1R 12/17/20	MW-05 5/16/18	MW-05 12/17/20	MW-05 4/25/24	MW-07 5/16/18	MW-07 12/17/20	MW-7 Duplicate 12/17/20	MW-7 4/25/24	Field Blank 5/16/18	Field Blank 12/17/20	Equipment Blank 12/17/20	Equipment Blank 4/24/24
Semi-Volatile Organic Compounds 8270 SIM (ng/L):													
1,4 - Dioxane	**350**	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Perfluorinated Alkyl Acids ng/L													
Perfluorobutanoic acid (PFBA)	--	4.48	33.8	38.5	27.3	66.2	55.1	52.6	30.3	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.976
Perfluoropentanoic acid (PFPeA)	--	3.76	106	108	67	160	109	105	60.1	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.816
Perfluorobutanesulfonic acid (PFBS)	--	1.2 J	1.42 J	2.39	1.92	11.9	15.3	14.6	7.49	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.511
Perfluorohexanoic acid (PFHxA)	--	3.63	93.3	97.5	57	148	106	101	53.8	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.450
Perfluoropentanesulfonic Acid (PFPeS)	--	NA	NA	NA	0.697 J	NA	NA	NA	2.64	NA	NA	NA	ND < 0.267
Perfluoroheptanoic acid (PFHpA)	--	1.57 J	117	115	66.8	175	154	145	69.8	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.305
Perfluorohexanesulfonic acid (PFHxS)	--	1.62 J	7.26	7.91	5.98	63.6	86.7	82	42.1	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.366
Perfluorooctanoic acid (PFOA)	**6.7**	3.59	**79.4**	**69.4**	**54.2**	**236**	**262**	**250**	**183**	0.819 J	ND < 1.92	ND < 1.81	ND < 0.664
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2FTS)	--	2.67 F	ND < 1.72	ND < 1.79	ND < 1.84	0.38 J	ND < 1.78	ND < 1.88	ND < 2.03	ND < 1.92	ND < 1.92	ND < 1.81	ND < 2.06
Perfluoroheptanesulfonic acid (PFHpS)	--	ND < 1.78	0.596 J	ND < 1.79	0.662 J	6.28	5.87	5.22	5.8	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.412
Perfluorononanoic acid (PFNA)	--	0.9 JB	30	30.6	17.5	55.8	53.6	52.4	57	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.480
Perfluorooctanesulfonic acid (PFOS)	**2.7**	2.6	**23.8**	**24.5**	**28.6**	**238**	**244**	**231**	**278**	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.694
Perfluorodecanoic acid (PFDA)	--	ND < 1.78	18	26.9	11.3	22.3	20.3	20.1	28.1	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.618
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2FTS)	--	2.51 J	ND < 1.72	ND < 1.79	ND < 2.74	ND < 1.67	ND < 1.78	ND < 1.88	ND < 2.34	ND < 1.92	ND < 1.92	ND < 1.81	ND < 2.37
N-Methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	ND < 1.78	ND < 1.72	ND < 1.79	ND < 0.768	ND < 1.67	1.52 J	ND < 1.88	1.21 J	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.831
Perfluoroundecanoic Acid (PFUnA)	--	ND < 1.78	1.33 J	3.81	1.72 J	1.77	1.15 J	1.17 J	7.41	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.664
Perfluorodecanesulfonic acid (PFDS)	--	ND < 1.78	ND < 1.72	ND < 1.79	ND < 0.406	ND < 1.67	ND < 1.78	ND < 1.88	ND < 0.346	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.351
Perfluorooctanesulfonamide (PFOSA)	--	ND < 1.78	ND < 1.72	ND < 1.79	ND < 0.476	0.72 J	0.972 J	0.972 J	2.88 F	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.412
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	--	ND < 1.78	0.338 J	ND < 1.79	ND < 0.812	ND < 1.67	ND < 1.78	ND < 1.88	1.16 J	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.824
Perfluorododecanoic Acid (PFDoA)	--	ND < 1.78	1.64 J	6.57	2.71	4.91	2.58 F	2.2	15.6	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.702
Perfluorotridecanoic Acid (PFTrDA)	--	ND < 1.78	ND < 1.72	0.379 J	ND < 0.662	0.673 J	0.342 J	ND < 1.88	1.65	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.572
Perfluorotetradecanoic acid (PFTeDA)	--	ND < 1.78	ND < 1.72	0.411 J	ND < 0.468	1.68	0.342 J	0.611 J	4.85	ND < 1.92	ND < 1.92	ND < 1.81	ND < 0.404

Notes:

1.Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1).

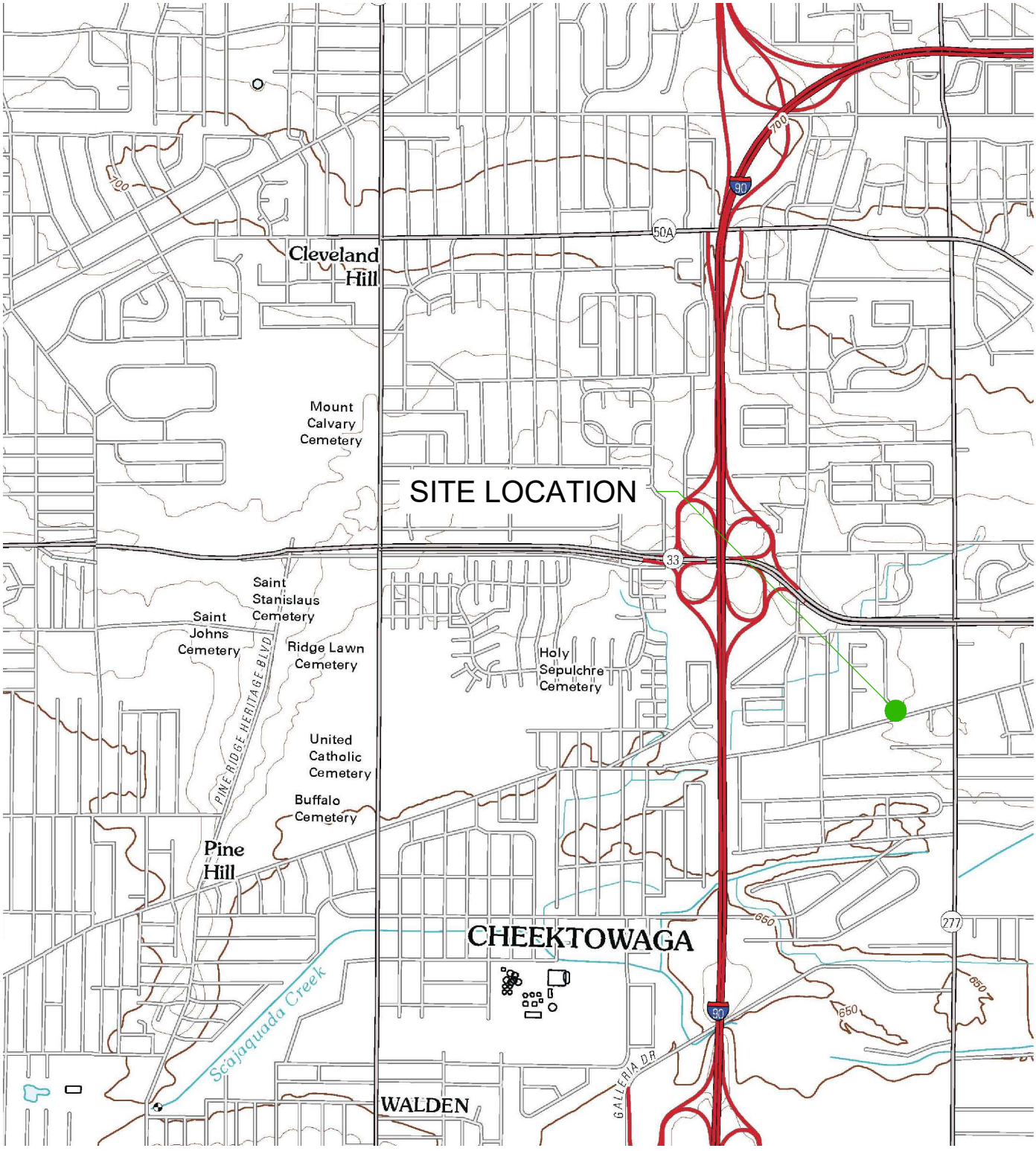
Definitions:

SIM = selective ion method
ng/L = nanograms per liter; parts per trillion
B = The analyte was detected above the reporting limit of the associated method blank.
F = The ratio of ion response falls outside of the laboratory criteria Results are considered to be an estimated maximum concentration.
J = Estimated value
ND < 1.72 = Indicates parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).

Bold = Additional Monitoring Required

FIGURES

1. Site Location and Vicinity Map
2. Site Map with Target Remedial Zones
3. Soil Vapor Extraction Record Drawing
4. Groundwater Injection Locations & Groundwater Monitoring
5. Sump, Floor Drain, and Sewer Cleanout Remediation
6. October 2023 Groundwater Isopotential
7. April 2024 Groundwater Isopotential



QUADRANGLE LOCATION

SOURCE:
BUFFALO, NY, 2010
USGS 7.5 MINUTE TOPOGRAPHIC MAP

N

0' 2,000'

Title:

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

FORMER DORO CLEANERS SITE
CHEEKTOWAGA, NEW YORK

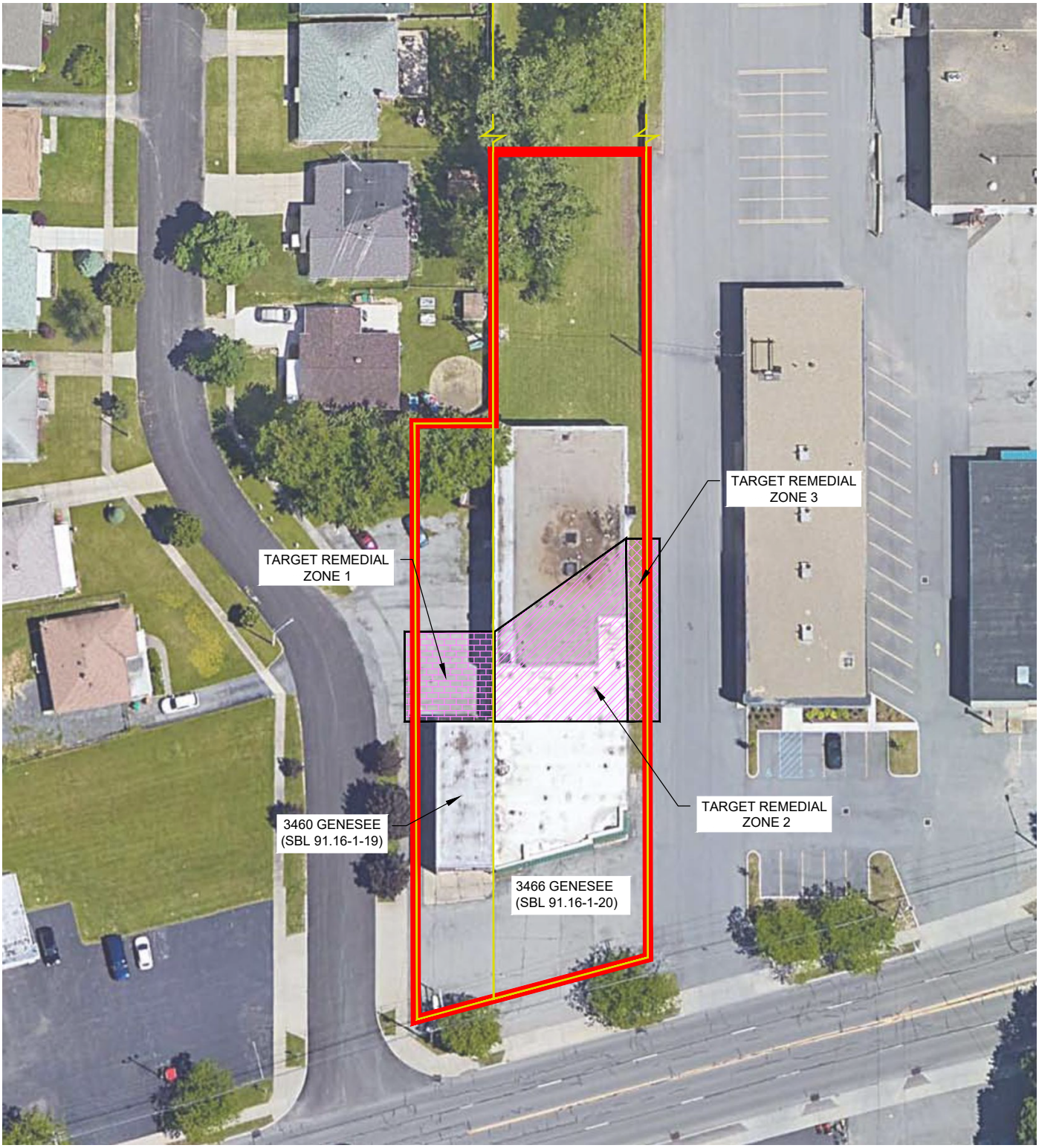
Prepared for:

J&M WALDEN HOLDINGS CORP.

ROUX

Compiled by: RFL	Date: MAY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	1
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 1; SITE LOCATION AND VICINITY PLAN.DWG		

F:\CAD\BENCHMARK\DORITEX CORP\2023 PRR\FIGURE 1; SITE LOCATION AND VICINITY PLAN.DWG



LEGEND

ENVIRONMENTAL EASEMENT SITE BOUNDARY

PARCEL BOUNDARIES

BASEMAP GOOGLE EARTH AERIAL 2017

N

60' 0 60'

Title:

SITE MAP WITH TARGET REMEDIAL ZONES PERIODIC REVIEW REPORT

FORMER DORO CLEANERS SITE
CHEEKTOWAGA, NEW YORK

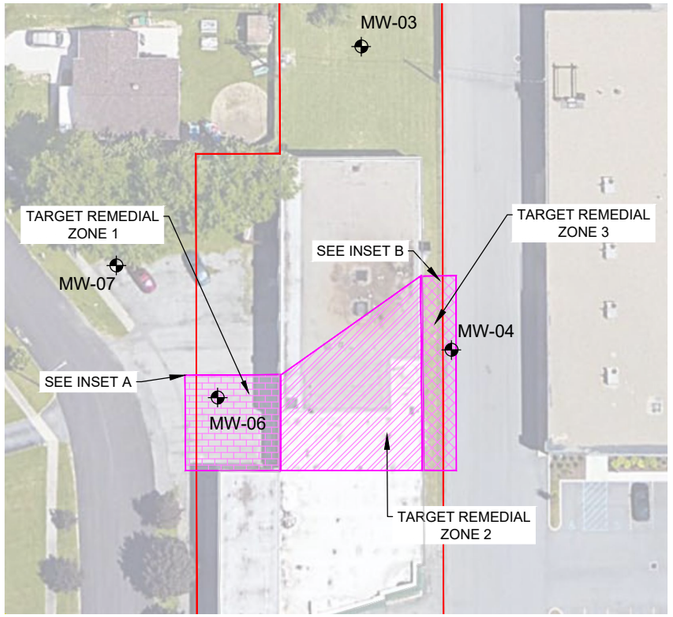
Prepared for:

J&M WALDEN HOLDINGS CORP.

ROUX

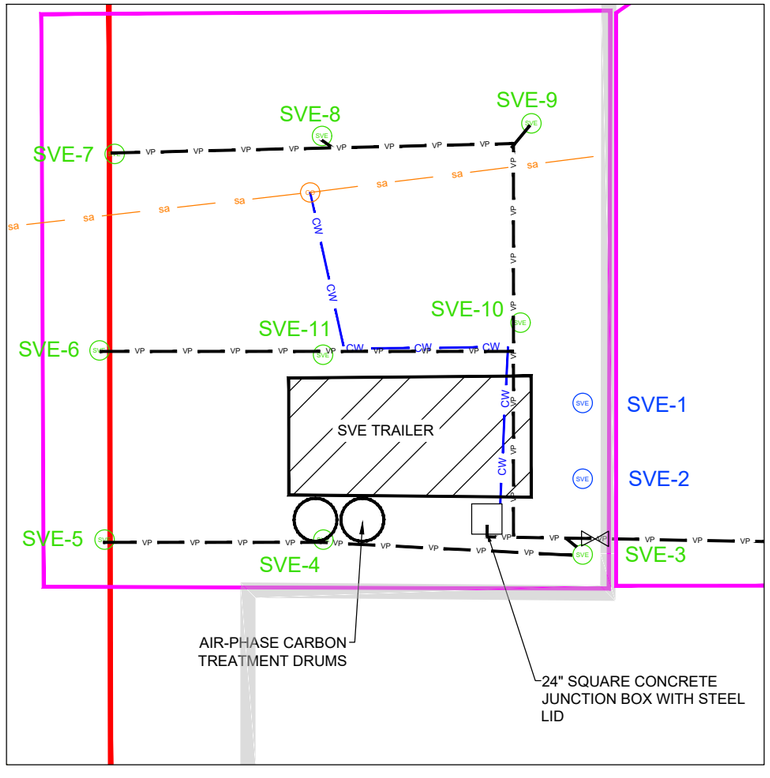
Compiled by: RFL	Date: MAY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	2
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 2; SITE LOCATION PLAN.DWG		

F:\CAD\BENCHMARK\DORITEX CORP\2024 PRR\FIGURE 2; SITE LOCATION PLAN.DWG

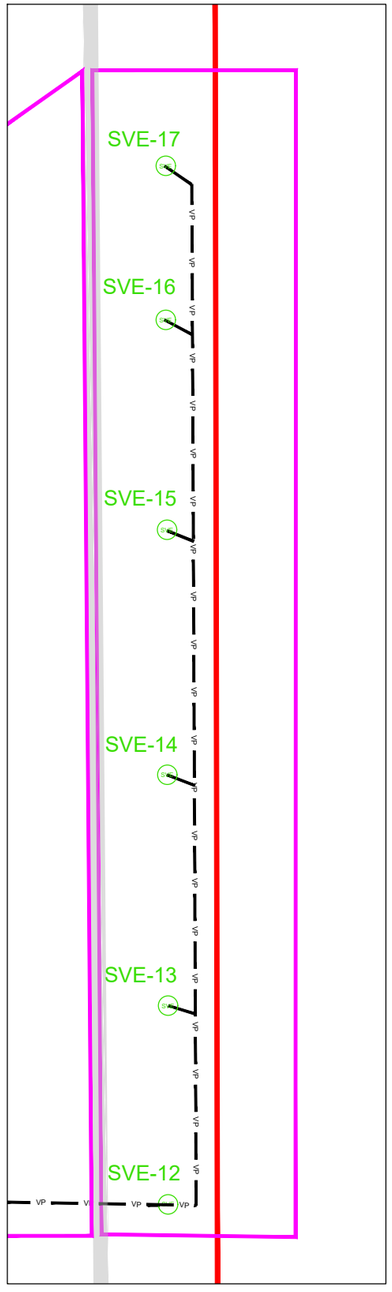


PLAN VIEW OF SITE AND TARGET REMEDIAL ZONES
APPROXIMATE SCALE 1" = 60'

INSET A: TARGET REMEDIAL ZONE 1 (TRZ-1)
APPROXIMATE SCALE 1" = 10'



INSET B: TARGET REMEDIAL ZONE 3 (TRZ-3)
APPROXIMATE SCALE 1" = 10'



N

LEGEND

- ENVIRONMENTAL EASEMENT SITE BOUNDARY
- TARGET REMEDIAL ZONE BOUNDARY
- SVE-5 (SVE) SVE WELL
- SVE-1 (VWE) VADOSE ZONE PIEZOMETER (SEE NOTE 1)
- MW-07 MONITORING WELL
- EXISTING BUILDING WALL
- SS EXISTING SANITARY SEWER LINE
- CO EXISTING SANITARY SEWER CLEAN-OUT
- CW CONDENSATE WATER PIPELINE (1")
- VP SVE VAPOR PHASE CONVEYANCE PIPE

NOTES:
1. SVE-1 AND SVE-2 WERE USED AS PIEZOMETERS DURING THE PILOT STUDY.
2.
3. UNAUTHORIZED ALTERATION OR ADDITION TO ANY DESIGN SPECIFICATION, PLAN OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Title:
SOIL VAPOR EXTRACTION RECORD DRAWING PERIODIC REVIEW REPORT

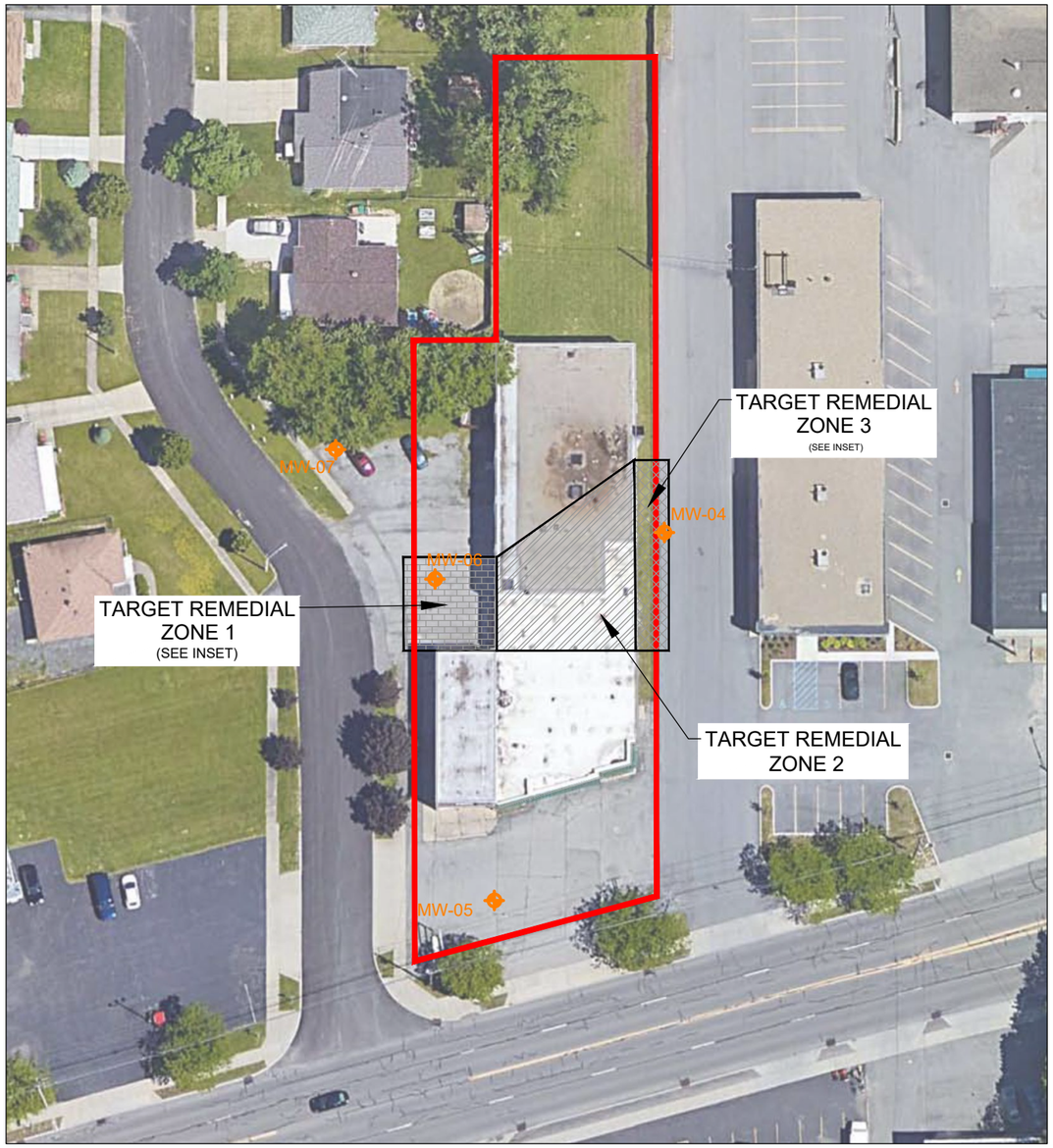
FORMER DORO DRY CLEANERS
CHEEKTOWAGA, NEW YORK

Prepared for:
J&M WALDEN HOLDINGS CORP.

ROUX

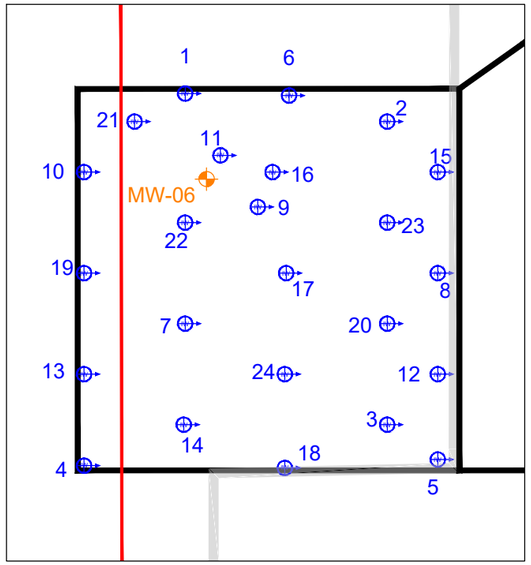
Compiled by: RFL	Date: MAY 2024	FIGURE 3
Prepared by: CNK	Scale: AS SHOWN	
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 3; SVE LAYOUT LOCATIONS.DWG		

F:\CAD\BENCHMARK\DORITEX CORP\2024 PRR\FIGURE 3; SVE LAYOUT LOCATIONS.DWG



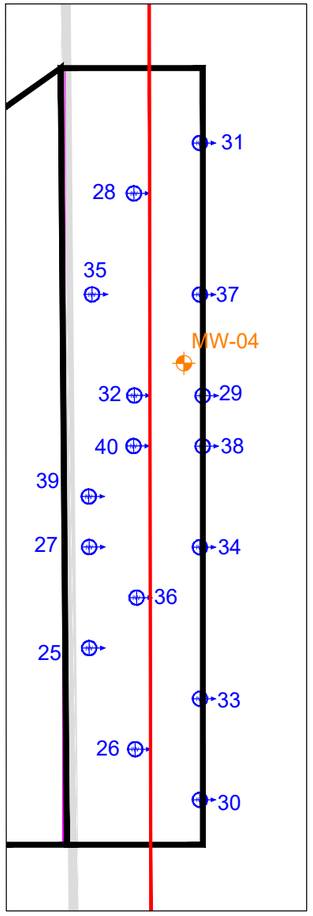
PLAN VIEW OF SITE AND TARGET GROUNDWATER REMEDIAL ZONES

APPROX. SCALE 1" = 60'



GROUNDWATER TARGET REMEDIAL ZONE 1 INSET INJECTION POINTS

APPROX. SCALE 1" = 15'



GROUNDWATER TARGET REMEDIAL ZONE 3 INSET INJECTION POINTS

APPROX. SCALE 1" = 15'

LEGEND

- ENVIRONMENTAL EASEMENT SITE BOUNDARY
- 24 INJECTION LOCATION
- EXISTING BUILDING WALL
- MW-1 GROUNDWATER QUALITY MONITORING WELL

Title:

GROUNDWATER INJECTION LOCATIONS AND GROUNDWATER MONITORING WELLS PERIODIC REVIEW REPORT

FORMER DORO CLEANERS SITE
CHEEKTOWAGA, NEW YORK

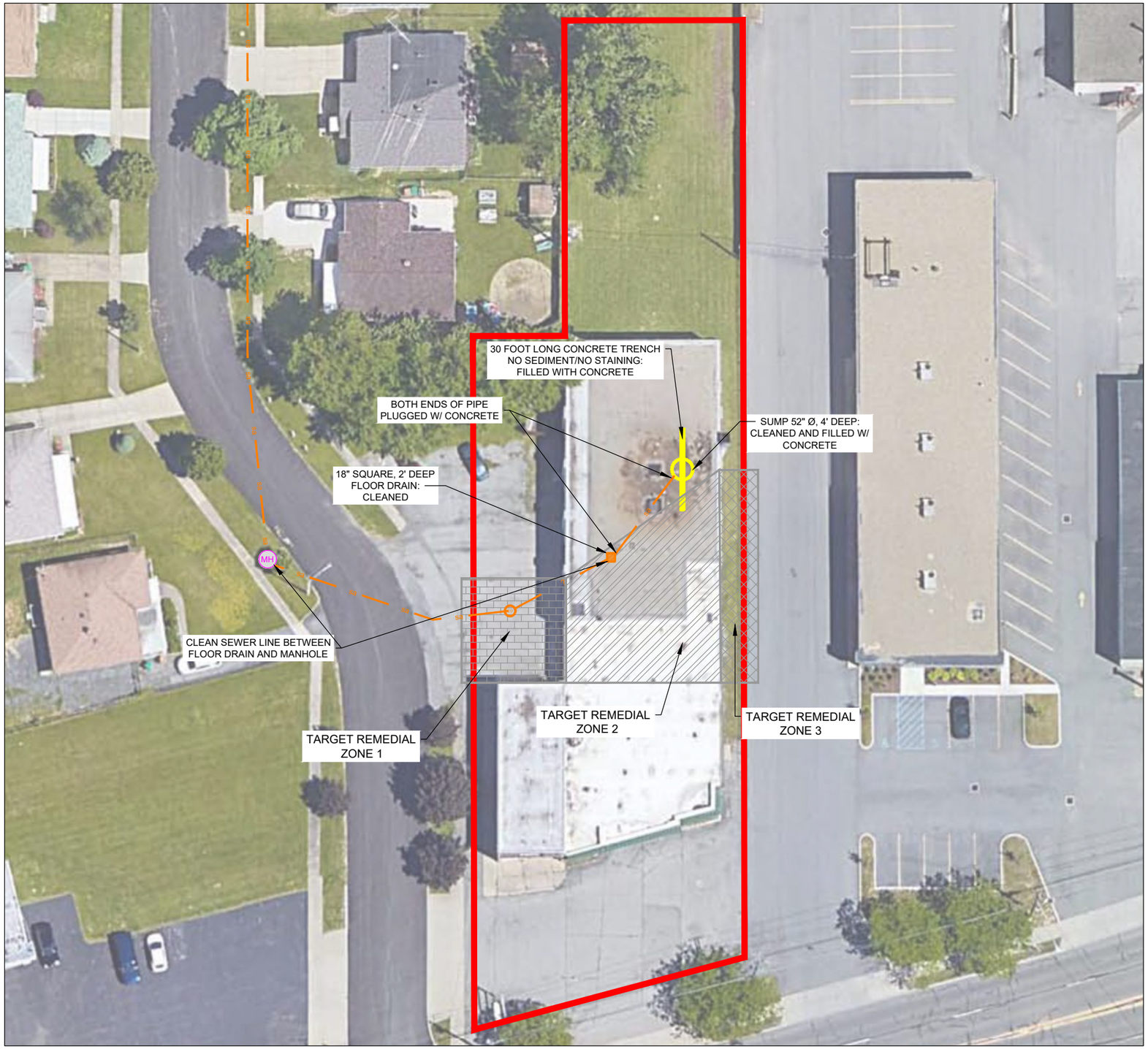
Prepared for:

J&M WALDEN HOLDINGS CORP.

ROUX

Compiled by: RFL	Date: MAY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	4
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 4; GROUNDWATER REMEDIAL PLAN.DWG		

F:\CAD\BENCHMARK\DORITEX CORP\2024 PRR\FIGURE 4; GROUNDWATER REMEDIAL PLAN.DWG



PLAN VIEW

APPROX. SCALE 1" = 40'

LEGEND

- ENVIRONMENTAL EASEMENT SITE BOUNDARY
- SANITARY MANHOLE
- EXISTING SANITARY SEWER CLEAN OUT
- EXISTING SANITARY SEWER LINE
- EXISTING FLOOR DRAIN

N

Title:

SUMP, FLOOR DRAIN, AND SEWER CLEANOUT REMEDIATION PERIODIC REVIEW REPORT

FORMER DORO CLEANERS SITE
CHEEKTOWAGA, NEW YORK

Prepared for:

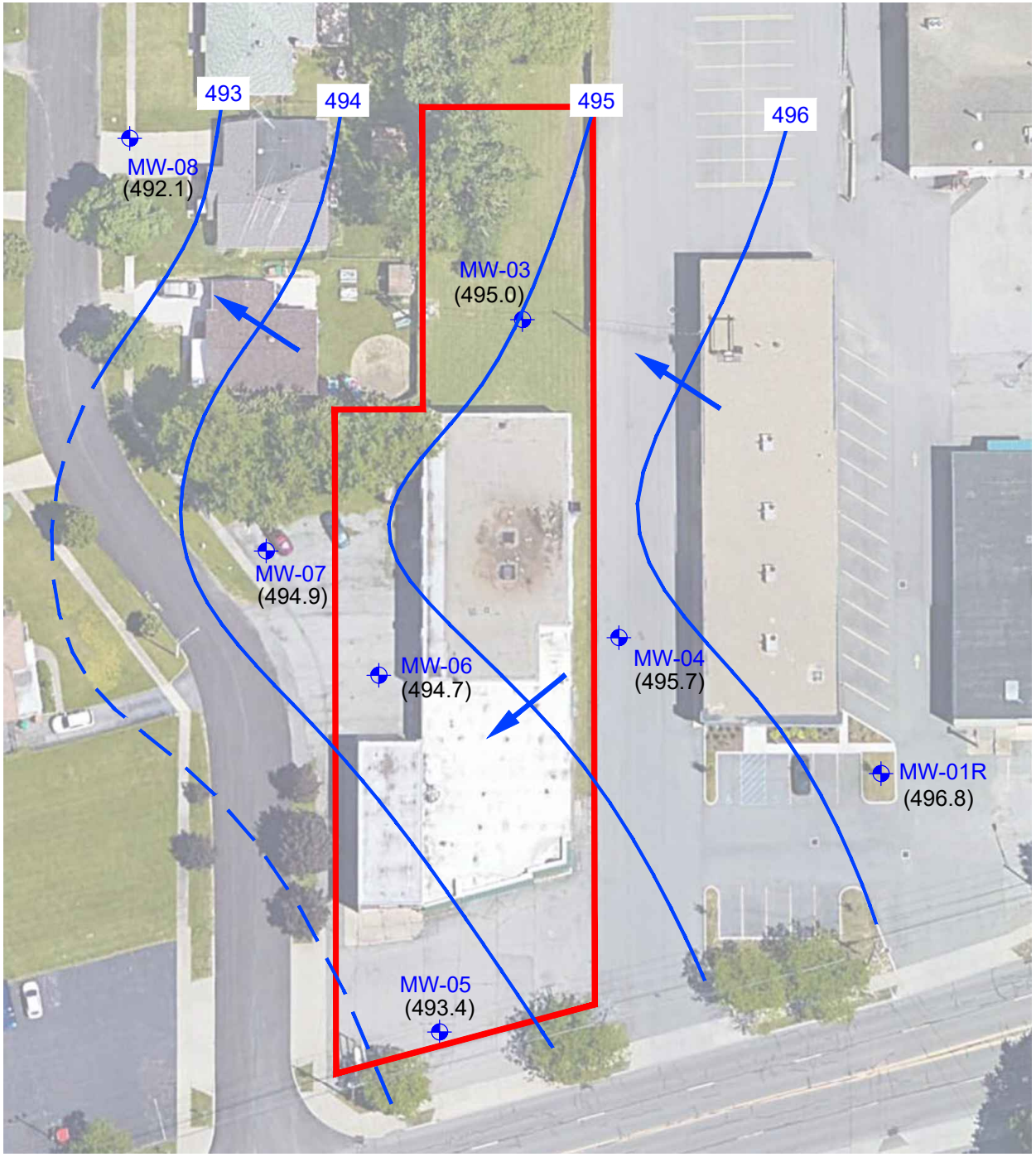
J&M WALDEN HOLDINGS CORP.

ROUX

Compiled by: RFL	Date: MAY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	5
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 5; FLOOR DRAIN, SUMP AND SEWER REMEDIATION PLAN.DWG		

F:\CAD\BENCHMARK\DORITEX CORP\2024 PRR\FIGURE 5; FLOOR DRAIN, SUMP AND SEWER REMEDIATION PLAN.DWG

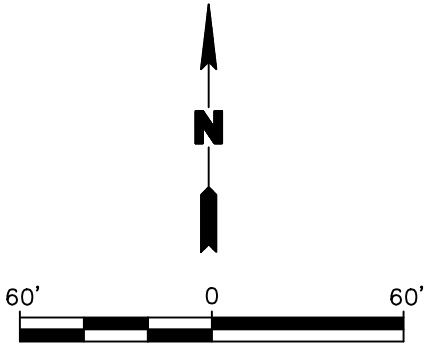
F:\CAD\BENCHMARK\DORITEX CORP\2024 PRR\FIGURE 6; NOVEMBER 2023 GROUNDWATER ISOPOTENTIAL MAP.DWG



LEGEND (0.09)

- ENVIRONMENTAL EASEMENT SITE BOUNDARY
- MW-05 (493.3) MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
- 494 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES:
1. DEPTH TO WATER MEASUREMENTS COLLECTED BY BENCHMARK ON NOVEMBER 21, 2023.
2. WELLS RE-SURVEYED ON OCTOBER 11, 2022, USING AN ASSUMED DATUM ELEVATION OF 500 FT.



Title:

NOVEMBER 2023 GROUNDWATER ISOPOTENTIAL MAP PERIODIC REVIEW REPORT

FORMER DORO DRY CLEANERS SITE
CHEEKTOWAGA, NEW YORK

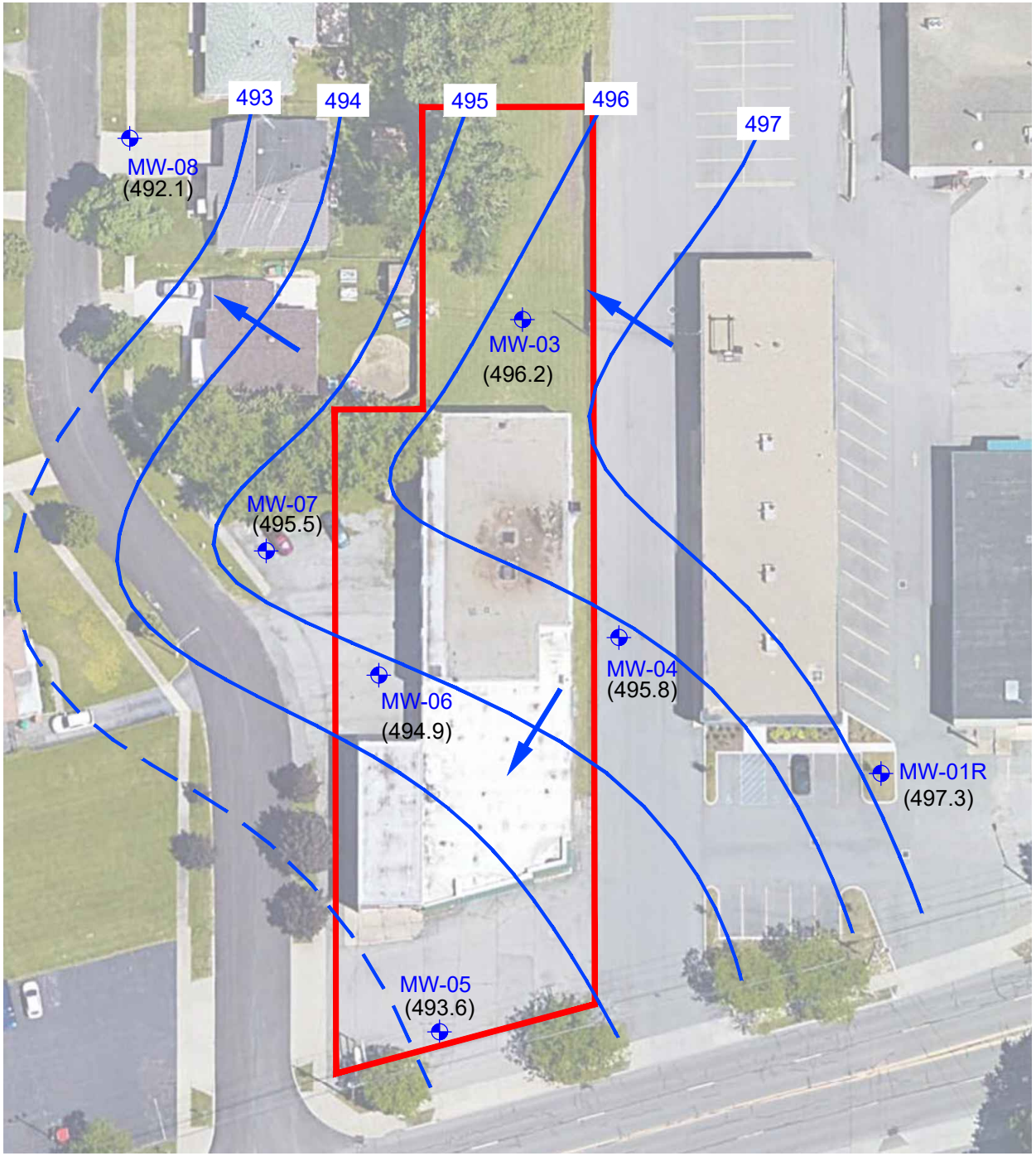
Prepared for:

J&M WALDEN HOLDINGS CORP.

ROUX

Compiled by: CNK	Date: MAY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	6
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 6; NOVEMBER 2023 GROUNDWATER ISOPOTENTIAL MAP.DWG		

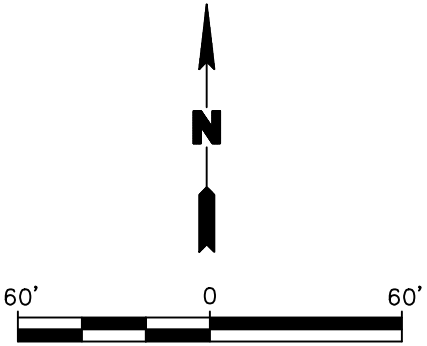
F:\CAD\BENCHMARK\DORITEX CORP\2024 PRR\FIGURE 7; MARCH 2024 GROUNDWATER ISOPOTENTIAL MAP.DWG



LEGEND (0.09)

- ENVIRONMENTAL EASEMENT SITE BOUNDARY
- MW-05 (493.6) MONITORING WELL WITH GROUNDWATER ELEVATION (FEET)
- 494 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES:
1. DEPTH TO WATER MEASUREMENTS COLLECTED BY BENCHMARK ON MARCH 28, 2024.
2. WELLS RE-SURVEYED ON OCTOBER 11, 2022, USING AN ASSUMED DATUM ELEVATION OF 500 FT.



Title:

MARCH 2024 GROUNDWATER ISOPOTENTIAL MAP PERIODIC REVIEW REPORT

FORMER DORO DRY CLEANERS SITE
CHEEKTOWAGA, NEW YORK

Prepared for:

J&M WALDEN HOLDINGS CORP.

ROUX

Compiled by: CNK	Date: MAY 2024	FIGURE
Prepared by: CNK	Scale: AS SHOWN	7
Project Mgr: CZB	Project: 4348.0001B000	
File: FIGURE 7; MARCH 2024 GROUNDWATER ISOPOTENTIAL MAP.DWG		

APPENDICES

A. Site Inspection Forms
B. Site Photo Log
C. Off-Site SSDS Communication Testing Field Notes
D. Groundwater Monitoring Documentation

APPENDIX A

Site Inspection 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. **915238**

Site Name Former Doro Dry Cleaners

Site Address: 3460-3466 Genesee Street Zip Code: 14225
City/Town: Cheektowaga
County: Erie
Site Acreage: 0.700

Reporting Period: June 08, 2023 to June 08, 2024

	YES	NO
1. Is the information above correct?	X	☐
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?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
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?	☐	X

Box 2

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

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

SITE NO. 915238 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
91.16-1-19	Elakor, Inc.	Site Management Plan Ground Water Use Restriction Landuse Restriction Soil Management Plan Monitoring Plan IC/EC Plan O&M Plan

Environmental Easement requiring the remedial party to submit periodic certification of institutional and engineering controls, restrict use and development of the controlled property for commercial and/or industrial use, restrict the use of groundwater as a source of potable or process water, and require compliance with the Department approved Site Management Plan.

a portion of 91.16-1-20	Elakor, Inc	Soil Management Plan Monitoring Plan O&M Plan IC/EC Plan Ground Water Use Restriction Landuse Restriction Site Management Plan

Environmental Easement requiring the remedial party to submit periodic certification of institutional and engineering controls, restrict use and development of the controlled property for commercial and/or industrial use, restrict the use of groundwater as a source of potable or process water, and require compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
91.16-1-19	Vapor Mitigation Air Sparging/Soil Vapor Extraction Monitoring Wells Cover System

- sub-slab depressurization systems (SSDSs);
- soil vapor extraction (SVE) system; and
- asphalt pavement and concrete floor slab cover system over Target Remedial Zones (TRZ) 1, 2 and 3.

a portion of 91.16-1-20	Cover System Monitoring Wells Vapor Mitigation Air Sparging/Soil Vapor Extraction

- sub-slab depressurization systems (SSDSs);
- soil vapor extraction (SVE) system; and
- asphalt pavement and concrete floor slab cover system over Target Remedial Zones (TRZ) 1, 2 and 3.

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
X	☐

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
X	☐

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. 915238

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 Jim Doro (print name) at 112 Halston Parkway, East Amherst, New York 14051 (print business address),

am certifying as President of Remedial Party (Owner or Remedial Party)

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

Jim Doro — 6/4/24

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

EC CERTIFICATIONS

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.

Thomas H. Forbes, P.E. at 2558 Hamburg Turnpike, Suite 300, Buffalo NY 14218,

print name — print business address

am certifying as a Professional Engineer for the Remedial Party

(Owner or Remedial Party)

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

Date 7-3-24

APPENDIX B

Site Photo Log

SITE PHOTOGRAPHS

Photo 1:

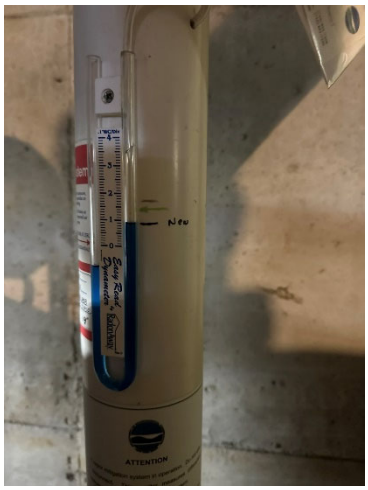


Photo 2:

Photo 3:

Photo 4:

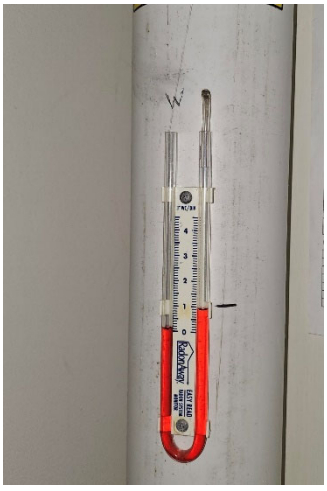


Photo 1: Manometer for sub-slab depressurization system at off-site residential building on March 13, 2024.

Photo 2: New vacuum fan for sub-slab depressurization system at off-site residential building installed in July 2023, same location as previous vacuum fan unit.

Photo 3: Manometer for sub-slab depressurization system in Site building on the 3466 Genesee Street portion of the building (eastern)

Photo 4: Manometer for sub-slab depressurization system in Site building on the 3460 Genesee Street portion of the building (western).

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: South side of Site, looking north. Road box repair at MW-5 in foreground.

Photo 6: East side of Site, looking north.

Photo 7: East side of Site, looking south.

Photo 8: Debris pile from roof located on north site of building, looking northwest.

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Photo 9: North side of Site, looking northwest.

Photo 10: West side of Site, looking south.

Photo 11: West side of Site, looking north.

Photo 12: Road box repair at MW-7, looking west.

Off-Site ASD System Communication Testing Field Notes

ROUX

DAILY LOG				
	DATE	3	13	24
	NO.			
	SHEET	1	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME: Dove Dry Cleaners	PROJECT NO.
PROJECT LOCATION: Cheektowaga NY	CLIENT:
FIELD ACTIVITY: 147 Golden Ct Residence Sub-slab Vacuum Test	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
1300	Chris Boron on-site w/ Mitigation Tech (Shane) and NYSDEC (V. Kreutzer) to collect sub-slab vacuum reading in basement to confirm system performance and vacuum fan was changed out in 2023. Manometer reading is 1" H_2O on suction pt. Collect two vacuum readings. See attached sketch of basement. VM-1: -0.029" H_2O VM-2: -0.420" H_2O V. Kreutzer satisfied with locations and results M. Tech seal holes. S. Sunni indicated percolating sound has stopped.
1330	C. Boron, Mitigation Tech, + NYSDEC left site

VISITORS ON SITE: V. Kreutzer - NYSDEC Shane. - Mitigation tech.	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: Discuss Emergent Contaminant Sampling for April 2024.
WEATHER CONDITIONS: A.M.: P.M.: Sunny 55°	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE: C. Boron	
SIGNATURE: [signature]	DATE: 3/13/24

ROUX

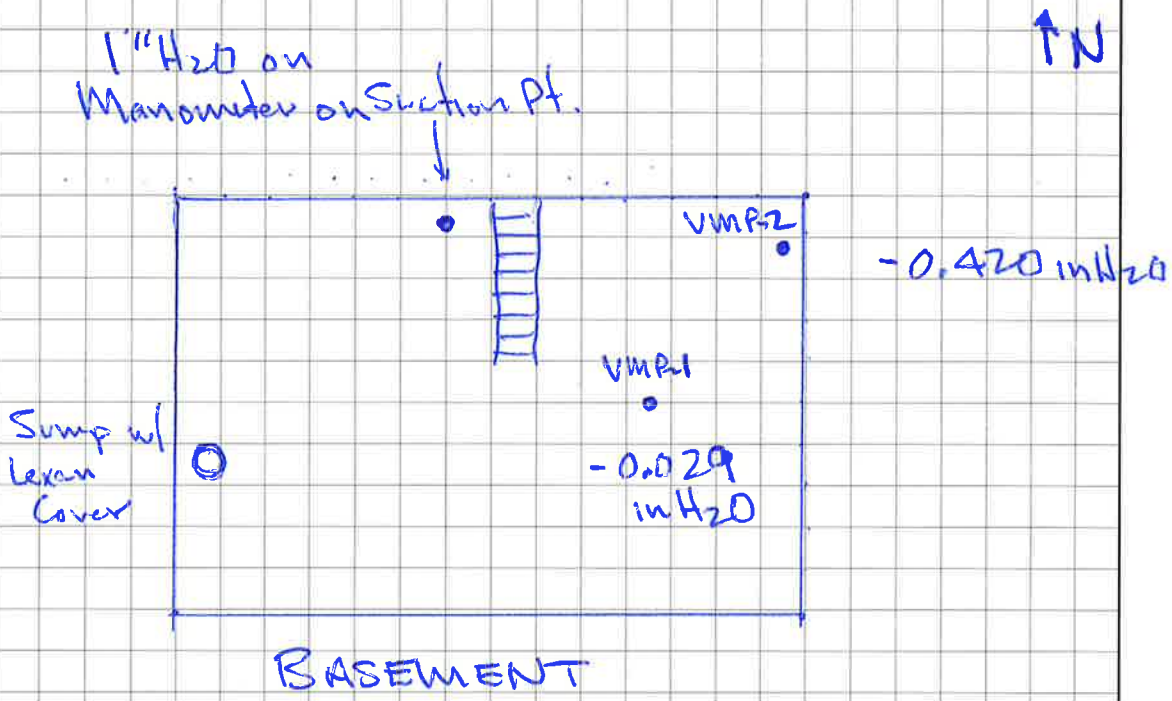
Field Sketch

DAILY LOG				
	DATE			
	NO.			
	SHEET	2	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME:	PROJECT NO.
PROJECT LOCATION:	CLIENT:
FIELD ACTIVITY:	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	

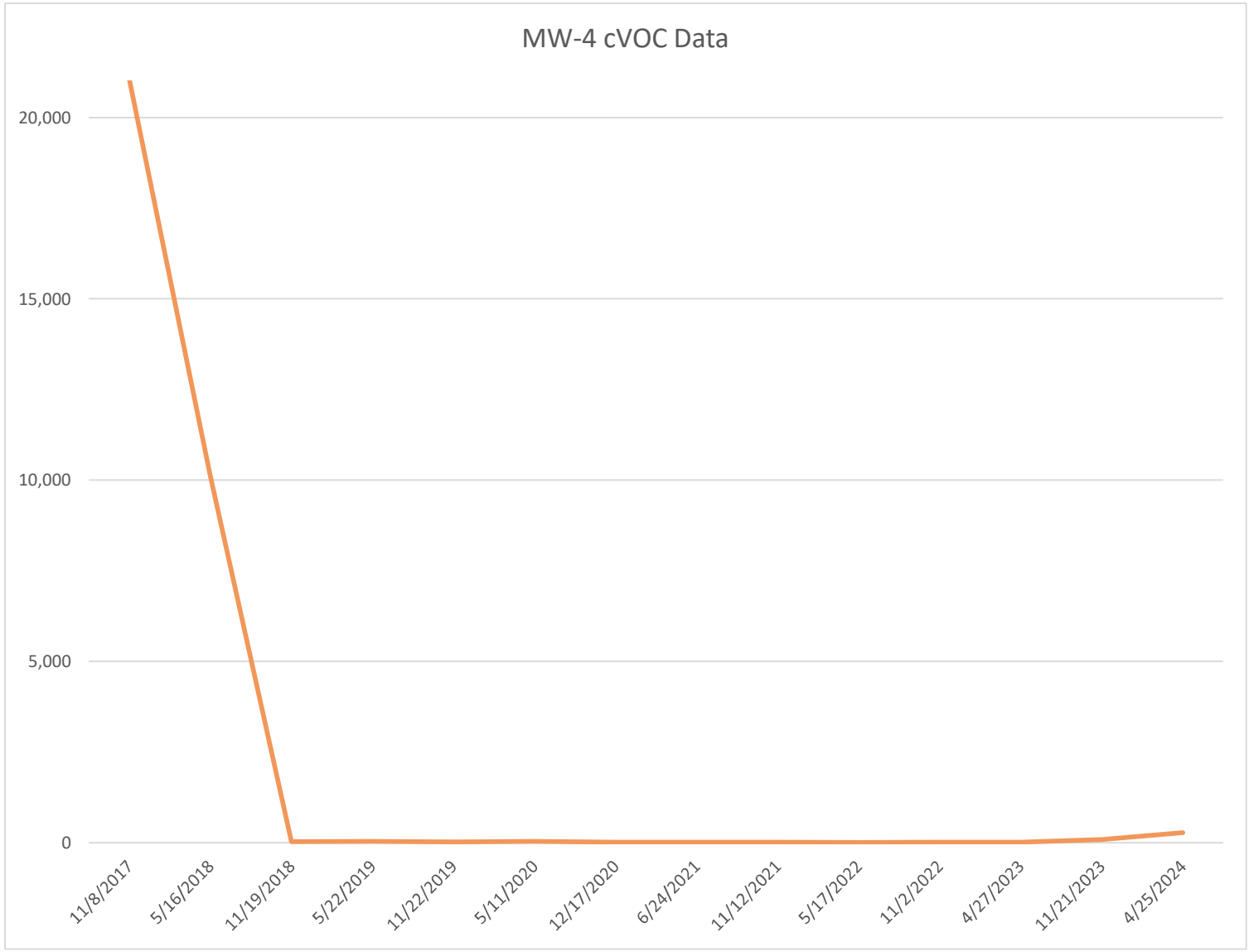
TIME	DESCRIPTION



VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: P.M.:	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE:	
SIGNATURE	DATE:

APPENDIX D

Groundwater Monitoring Documentation


MW-4 cVOC Data
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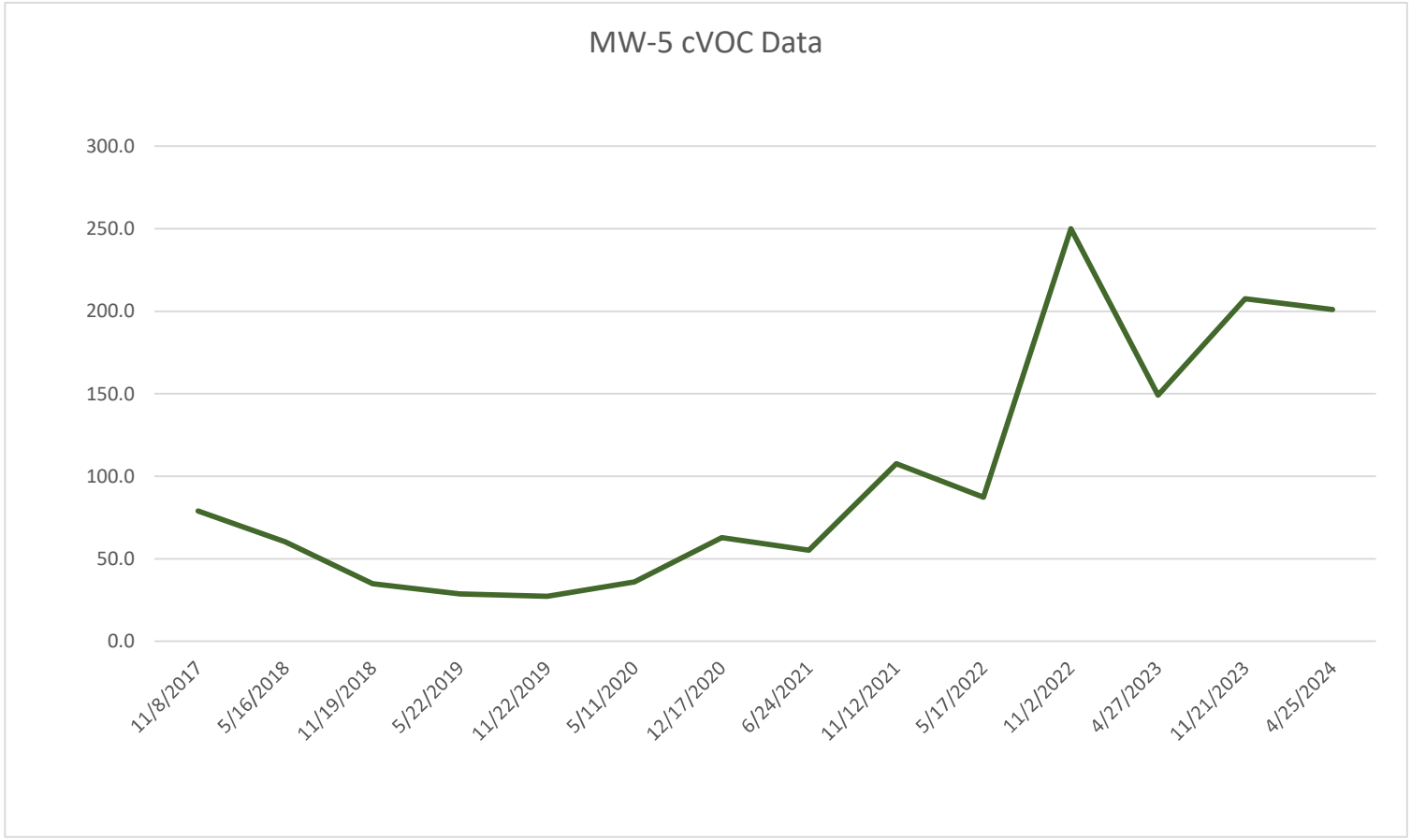
15,000
10,000
5,000
0
11/8/2017
5/16/2018
11/19/2018
5/22/2019
11/22/2019
5/11/2020
12/17/2020
6/24/2021
11/12/2021
5/17/2022
11/2/2022
4/27/2023
11/21/2023
4/25/2024


MW-5 cVOC Data
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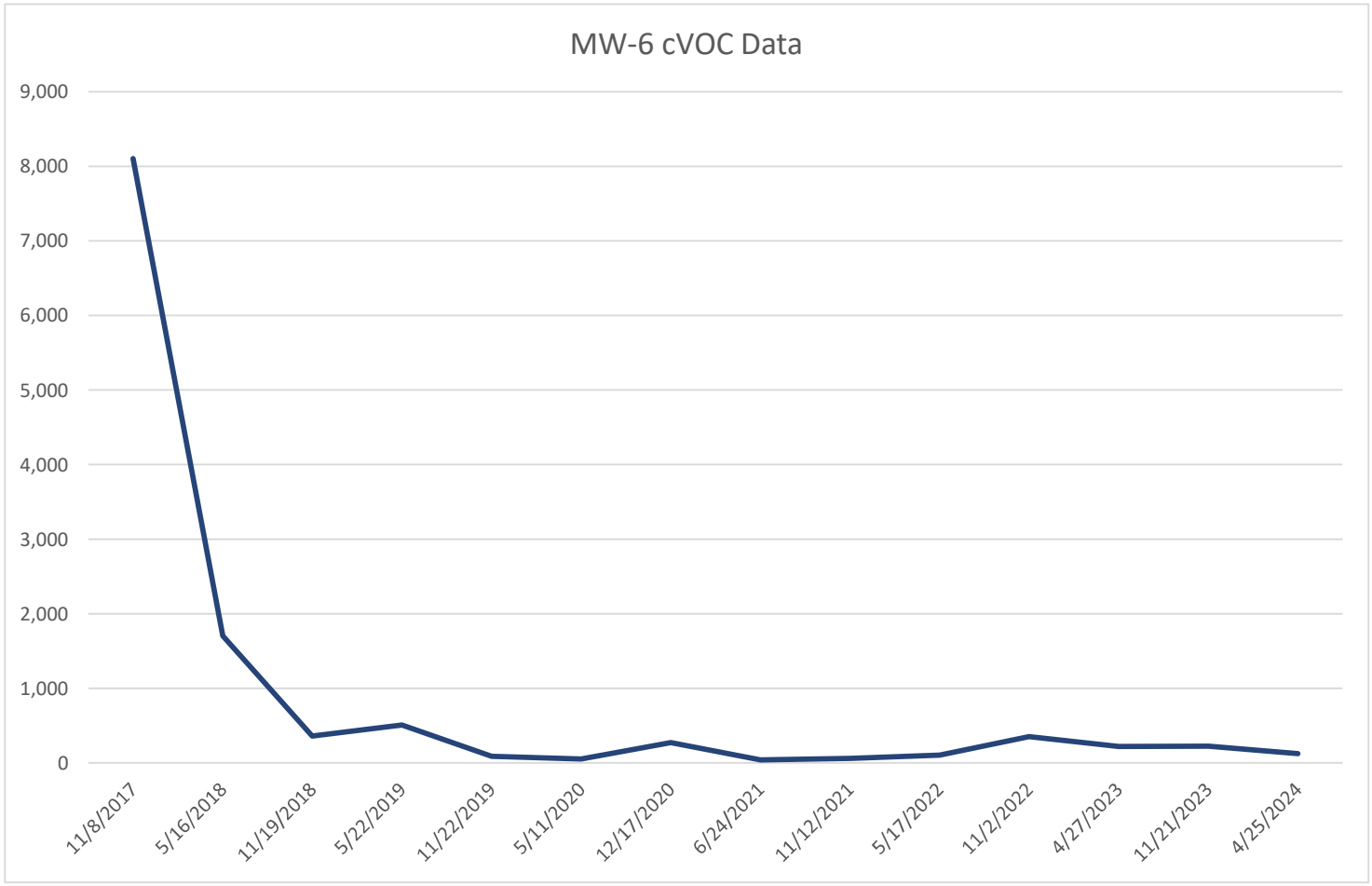
250.0
200.0
150.0
100.0
50.0
0.0
11/8/2017
5/16/2018
11/19/2018
5/22/2019
11/22/2019
5/11/2020
12/17/2020
6/24/2021
11/12/2021
5/17/2022
11/2/2022
4/27/2023
11/21/2023
4/25/2024


MW-6 cVOC Data
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
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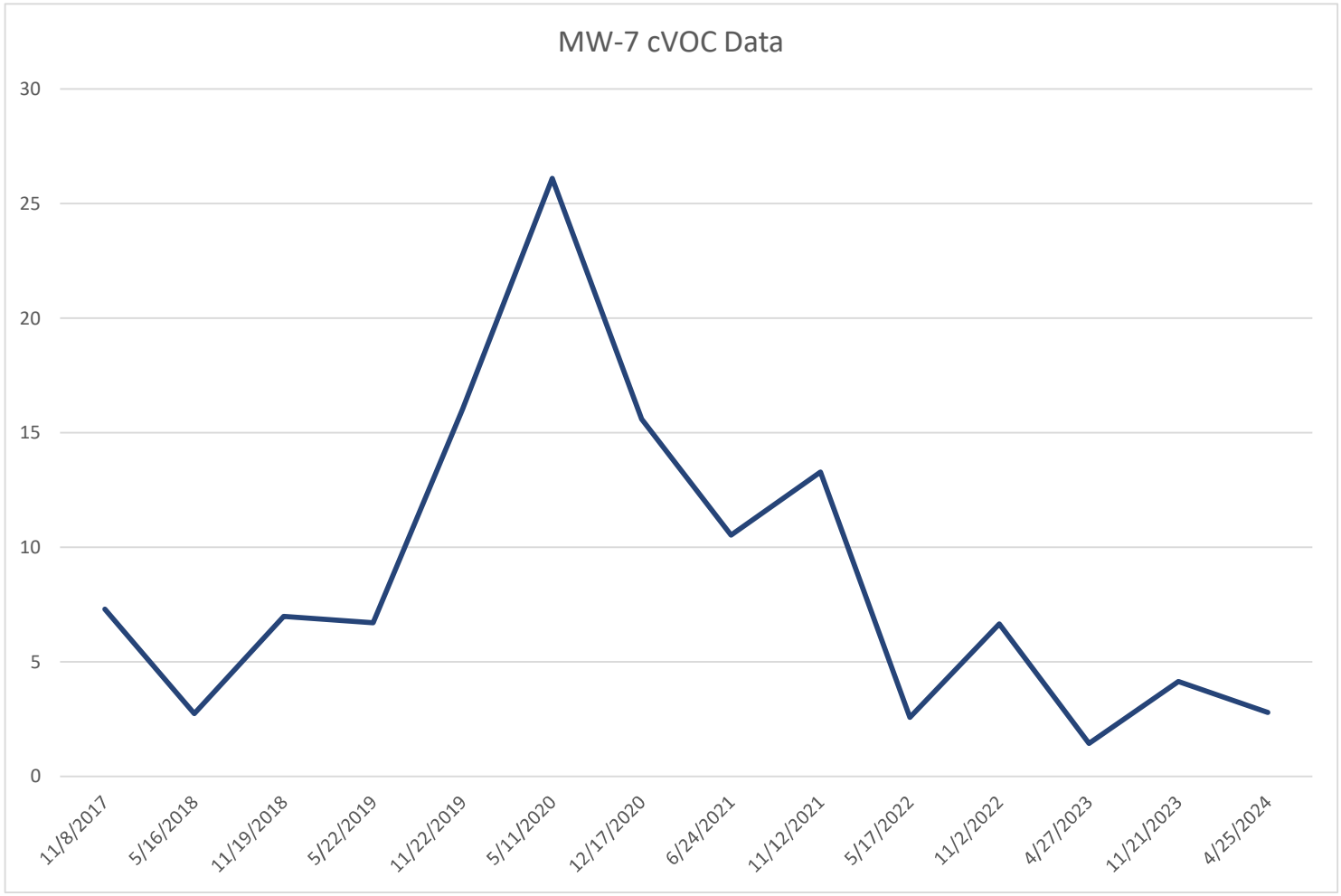
5/16/2018
11/19/2018
5/22/2019
11/22/2019
5/11/2020
12/17/2020
6/24/2021
11/12/2021
5/17/2022
11/2/2022
4/27/2023
11/21/2023
4/25/2024


MW-7 cVOC Data
30
25
20
15
10
5
0
11/8/2017
5/16/2018
11/19/2018
5/22/2019
11/22/2019
5/11/2020
12/17/2020
6/24/2021
11/12/2021
5/17/2022
11/2/2022
4/27/2023
11/21/2023
4/25/2024

ANALYTICAL REPORT

Lab Number:	L2369351
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	DORO CLEANERS GWM
Project Number:	B0359-015-001-004
Report Date:	11/30/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004

Lab Number: L2369351
Report Date: 11/30/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2369351-01	MW-04	WATER	CHEEKTOWAGA,NY	11/21/23 10:03	11/21/23
L2369351-02	MW-05	WATER	CHEEKTOWAGA,NY	11/21/23 09:54	11/21/23
L2369351-03	MW-06	WATER	CHEEKTOWAGA,NY	11/21/23 09:30	11/21/23
L2369351-04	MW-07	WATER	CHEEKTOWAGA,NY	11/21/23 09:20	11/21/23

Project Name:	DORO CLEANERS GWM	**Lab Number:**	L2369351
Project Number:	B0359-015-001-004	**Report Date:**	11/30/23

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:	DORO CLEANERS GWM	**Lab Number:**	L2369351
Project Number:	B0359-015-001-004	**Report Date:**	11/30/23

Case Narrative (continued)

Report Submission

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/30/23

ORGANICS

VOLATILES

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004
Lab Number: L2369351
Report Date: 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-01
Client ID: MW-04
Sample Location: CHEEKTOWAGA,NY

Date Collected: 11/21/23 10:03
Date Received: 11/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/28/23 10:38
Analyst: MAG

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	0.73		ug/l	0.50	0.16	1
Toluene	5.4		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	23		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: DORO CLEANERS GWM **Lab Number:** L2369351

Project Number: B0359-015-001-004 **Report Date:** 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-01 Date Collected: 11/21/23 10:03

Client ID: MW-04 Date Received: 11/21/23

Sample Location: CHEEKTOWAGA,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	65		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	3.5	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	1.2	J	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004
Lab Number: L2369351
Report Date: 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-02
Client ID: MW-05
Sample Location: CHEEKTOWAGA,NY

Date Collected: 11/21/23 09:54
Date Received: 11/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/28/23 11:00
Analyst: MAG

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	31		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	12		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.58		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.76	J	ug/l	2.5	0.70	1
Trichloroethene	24		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DORO CLEANERS GWM **Lab Number:** L2369351

Project Number: B0359-015-001-004 **Report Date:** 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-02 Date Collected: 11/21/23 09:54

Client ID: MW-05 Date Received: 11/21/23

Sample Location: CHEEKTOWAGA,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	140		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004
Lab Number: L2369351
Report Date: 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-03
Client ID: MW-06
Sample Location: CHEEKTOWAGA,NY

Date Collected: 11/21/23 09:30
Date Received: 11/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/28/23 11:22
Analyst: MAG

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	0.55		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	120		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.46	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DORO CLEANERS GWM **Lab Number:** L2369351

Project Number: B0359-015-001-004 **Report Date:** 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-03 Date Collected: 11/21/23 09:30

Client ID: MW-06 Date Received: 11/21/23

Sample Location: CHEEKTOWAGA,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	100		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004
Lab Number: L2369351
Report Date: 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-04
Client ID: MW-07
Sample Location: CHEEKTOWAGA,NY

Date Collected: 11/21/23 09:20
Date Received: 11/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 11/28/23 11:44
Analyst: MAG

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	0.64	J	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	0.19	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DORO CLEANERS GWM **Lab Number:** L2369351

Project Number: B0359-015-001-004 **Report Date:** 11/30/23

SAMPLE RESULTS

Lab ID: L2369351-04 Date Collected: 11/21/23 09:20

Client ID: MW-07 Date Received: 11/21/23

Sample Location: CHEEKTOWAGA,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	3.5		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	2.8	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004
Lab Number: L2369351
Report Date: 11/30/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/28/23 08:27
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1857645-5					
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: DORO CLEANERS GWM **Lab Number:** L2369351

Project Number: B0359-015-001-004 **Report Date:** 11/30/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/28/23 08:27
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1857645-5					
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: DORO CLEANERS GWM
Project Number: B0359-015-001-004
Lab Number: L2369351
Report Date: 11/30/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/28/23 08:27
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1857645-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO CLEANERS GWM

Project Number: B0359-015-001-004

Lab Number: L2369351

Report Date: 11/30/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1857645-3 WG1857645-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		97		70-130	13		20
Carbon tetrachloride	100		91		63-132	9		20
1,2-Dichloropropane	98		92		70-130	6		20
Dibromochloromethane	82		77		63-130	6		20
1,1,2-Trichloroethane	83		80		70-130	4		20
Tetrachloroethene	98		87		70-130	12		20
Chlorobenzene	100		94		75-130	6		20
Trichlorofluoromethane	88		81		62-150	8		20
1,2-Dichloroethane	92		89		70-130	3		20
1,1,1-Trichloroethane	100		92		67-130	8		20
Bromodichloromethane	90		85		67-130	6		20
trans-1,3-Dichloropropene	83		79		70-130	5		20
cis-1,3-Dichloropropene	90		87		70-130	3		20
Bromoform	78		78		54-136	0		20
1,1,2,2-Tetrachloroethane	86		92		67-130	7		20
Benzene	100		96		70-130	4		20
Toluene	100		93		70-130	7		20
Ethylbenzene	100		96		70-130	4		20
Chloromethane	110		98		64-130	12		20
Bromomethane	75		68		39-139	10		20
Vinyl chloride	98		86		55-140	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO CLEANERS GWM

Project Number: B0359-015-001-004

Lab Number: L2369351

Report Date: 11/30/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1857645-3 WG1857645-4								
Chloroethane	90		81		55-138	11		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	110		99		70-130	11		20
Trichloroethene	96		87		70-130	10		20
1,2-Dichlorobenzene	98		92		70-130	6		20
1,3-Dichlorobenzene	100		95		70-130	5		20
1,4-Dichlorobenzene	100		93		70-130	7		20
Methyl tert butyl ether	74		76		63-130	3		20
p/m-Xylene	110		95		70-130	15		20
o-Xylene	105		95		70-130	10		20
cis-1,2-Dichloroethene	110		99		70-130	11		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	96		86		36-147	11		20
Acetone	98		100		58-148	2		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	79		88		63-138	11		20
4-Methyl-2-pentanone	72		85		59-130	17		20
2-Hexanone	77		92		57-130	18		20
Bromochloromethane	99		98		70-130	1		20
1,2-Dibromoethane	83		82		70-130	1		20
n-Butylbenzene	110		97		53-136	13		20
sec-Butylbenzene	110		95		70-130	15		20
1,2-Dibromo-3-chloropropane	81		92		41-144	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO CLEANERS GWM

Project Number: B0359-015-001-004

Lab Number: L2369351

Report Date: 11/30/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1857645-3 WG1857645-4								
Isopropylbenzene	100		97		70-130	3		20
p-Isopropyltoluene	110		96		70-130	14		20
n-Propylbenzene	110		96		69-130	14		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	96		91		70-130	5		20
1,3,5-Trimethylbenzene	100		96		64-130	4		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20
Methyl Acetate	85		93		70-130	9		20
Cyclohexane	100		97		70-130	3		20
1,4-Dioxane	140		152		56-162	8		20
Freon-113	99		90		70-130	10		20
Methyl cyclohexane	100		93		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		97		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	99		102		70-130

Project Name: DORO CLEANERS GWM
Project Number: B0359-015-001-004

Lab Number: L2369351
Report Date: 11/30/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2369351-01A	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-01B	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-01C	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-02A	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-02B	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-02C	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-03A	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-03B	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-03C	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-04A	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-04B	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L2369351-04C	Vial HCl preserved	A	NA		3.2	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	DORO CLEANERS GWM	**Lab Number:**	L2369351
Project Number:	B0359-015-001-004	**Report Date:**	11/30/23

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:	DORO CLEANERS GWM	**Lab Number:**	L2369351
Project Number:	B0359-015-001-004	**Report Date:**	11/30/23

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:	DORO CLEANERS GWM	**Lab Number:**	L2369351
Project Number:	B0359-015-001-004	**Report Date:**	11/30/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	DORO CLEANERS GWM	**Lab Number:**	L2369351
Project Number:	B0359-015-001-004	**Report Date:**	11/30/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 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 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 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, 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

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 1

Date Rec'd in Lab: 11/22/23

ALPHA Job #: L2369351

Client Information
Client: Roux
Address: 2558 Hempstead Turnpike Uniondale NY
Phone: (716) 796-4962
Fax:
Email: TBolster@RouxAssoc.com

Project Information
Project Name: Doug Reeves GWM
Project Location: Cheektowaga NY
Project #: 30359-015-001-004
(Use Project name as Project #)
Project Manager: Chris Boron
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+CP-51 VOC	8260	Sample Specific Comments	Total Bottle
69351-01	MW-04	11/21/23	1003	Water	TAB	X			3
-02	MW-05		954			X			3
-03	MW-06		930			X			3
-04	MW-07		920			X			3

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												
Preservative	B												

Relinquished By:	Date/Time	Received By:	Date/Time
	11/21/23 1350		11/22/23 1350
	11/21/23 1350		11/22/23 0240

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)

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Doro Cleaners
WELL NUMBER: MW-04
Project Number:
Sample Matrix: ☐ GROUNDWATER ☐
Client:
Weather: Sunny Upper 40's Wind 10-15 mph

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	4.48 / 4.20	Bottom Depth (fbTOR):	9.63
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flushmount

PDB DATA:

Depth of PDB in well (fbTOR):	9'	Is PDB harness and line dedicated to sample location?	yes	(no)
Condition of Well:	Good	Is PDB located at center of screen?	(yes)	no
Field Personnel:	THB			

Installation:

Date of PDB placement	11/3/23
Time of PDB placement:	1414

Retrieval:

Date of PDB retrieval.	11/21/23
Time of PDB retrieval:	1003
Condition of PDB:	

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE	☑ MOBILE CARBON UNIT
☐ CONTAINERIZED	☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS:

PREPARED BY: THB

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Doro Cleaners
Project Number:
Client:

WELL NUMBER: MW-05
Sample Matrix: ☐ GROUNDWATER ☐
Weather: Sunny upper 40's wind 10-15 SW

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	5.44 / 5.43	Bottom Depth (fbTOR):	9.43
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flush mnt

PDB DATA:

Depth of PDB in well (fbTOR):		Is PDB harness and line dedicated to sample location? yes	(no)
Condition of Well:	Fair	Is PDB located at center of screen? (yes)	no
Field Personnel:	TH3		

Installation:

Date of PDB placement.	11/3/23
Time of PDB placement:	1046

Retrieval:

Date of PDB retrieval.	11/21/23
Time of PDB retrieval:	754
Condition of PDB:	

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE ☒ MOBILE CARBON UNIT
☐ CONTAINERIZED ☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS:

PREPARED BY: TH3

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Poro Cleaners
Project Number:
Client:

WELL NUMBER: MW-07
Sample Matrix: ☐ GROUNDWATER ☐
Weather: Sunny and 50's wind SW 5-10mph

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	2.01 | 2.10	Bottom Depth (fbTOR):	12.74
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flushmt

PDB DATA:

Depth of PDB in well (fbTOR):		Is PDB harness and line dedicated to sample location?	yes (no)
Condition of Well:	Fair	Is PDB located at center of screen?	(yes) no
Field Personnel:	TAB		

Installation:

Date of PDB placement.	10/3/23
Time of PDB placement:	1039

Retrieval:

Date of PDB retrieval.	11/21/23
Time of PDB retrieval:	920
Condition of PDB:	Good

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE	☒ MOBILE CARBON UNIT
☐ CONTAINERIZED	☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS:

PREPARED BY: TAB

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Dorb Cleaners
WELL NUMBER: MW-06
Project Number:
Sample Matrix: ☐ GROUNDWATER ☐
Client:
Weather: Sunny mid 50's wind SW 10-15 mph

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	3.71 / 3.84	Bottom Depth (fbTOR):	12.14
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flush

PDB DATA:

Depth of PDB in well (fbTOR):		Is PDB harness and line dedicated to sample location?	(yes) no
Condition of Well:	Good	Is PDB located at center of screen?	(yes) no
Field Personnel:	TAB		

Installation:

Date of PDB placement.	11/3/23
Time of PDB placement:	1024

Retrieval:

Date of PDB retrieval.	11/21/23
Time of PDB retrieval:	0930
Condition of PDB:	Good

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE	☑ MOBILE CARBON UNIT
☐ CONTAINERIZED	☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS:

PREPARED BY: TAB

ANALYTICAL REPORT

Lab Number:	L2422873
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	DORO GWM
Project Number:	4348-0001B000-04
Report Date:	05/15/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2422873-01	MW-04	WATER	CHEEKTOWAGA,NY	04/25/24 12:27	04/25/24
L2422873-02	MW-05	WATER	CHEEKTOWAGA,NY	04/25/24 11:32	04/25/24
L2422873-03	MW-06	WATER	CHEEKTOWAGA,NY	04/25/24 10:37	04/25/24
L2422873-04	MW-07	WATER	CHEEKTOWAGA,NY	04/25/24 09:29	04/25/24
L2422873-05	FIELD BLANK	WATER	CHEEKTOWAGA,NY	04/25/24 09:00	04/25/24

Project Name:	DORO GWM	**Lab Number:**	L2422873
Project Number:	4348-0001B000-04	**Report Date:**	05/15/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, 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:	DORO GWM	**Lab Number:**	L2422873
Project Number:	4348-0001B000-04	**Report Date:**	05/15/24

Case Narrative (continued)

Report Submission

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

Perfluorinated Alkyl Acids by 1633

L2422873-02: The Extracted Internal Standard recoveries were less than 10% for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (5%) and n-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-netfosaa) (4%); however, the criteria were achieved upon re-extraction at a lower volume. The results of the re-extraction are reported for the associated target compounds.

L2422873-02 and -04: 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: Michelle M. Morris

Title: Technical Director/Representative Date: 05/15/24

ORGANICS

VOLATILES

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-01
Client ID: MW-04
Sample Location: CHEEKTOWAGA,NY
Date Collected: 04/25/24 12:27
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/05/24 22:33
Analyst: MJV

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	1.1		ug/l	0.50	0.16	1
Toluene	5.1		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	100		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.20	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	2.2	J	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: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-01 Date Collected: 04/25/24 12:27

Client ID: MW-04 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,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	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	0.85	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	180		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	4.4	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-02
Client ID: MW-05
Sample Location: CHEEKTOWAGA,NY
Date Collected: 04/25/24 11:32
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/05/24 22:55
Analyst: MJV

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	70		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	0.77	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.53		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.73	J	ug/l	2.5	0.70	1
Trichloroethene	30		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-02 Date Collected: 04/25/24 11:32

Client ID: MW-05 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,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	0.17	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	99		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	3.6	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-03
Client ID: MW-06
Sample Location: CHEEKTOWAGA,NY

Date Collected: 04/25/24 10:37
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/05/24 23:17
Analyst: MJV

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	0.26	J	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	94		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.27	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.76		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-03 Date Collected: 04/25/24 10:37

Client ID: MW-06 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,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	0.17	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	28		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	3.8	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-04
Client ID: MW-07
Sample Location: CHEEKTOWAGA,NY
Date Collected: 04/25/24 09:29
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/05/24 23:39
Analyst: MJV

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	1.1		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: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-04 Date Collected: 04/25/24 09:29

Client ID: MW-07 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,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	0.17	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	1.7	J	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	3.6	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/05/24 18:12
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1917363-5					
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: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/05/24 18:12
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1917363-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
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: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/05/24 18:12
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1917363-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO GWM

Project Number: 4348-0001B000-04

Lab Number: L2422873

Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1917363-3 WG1917363-4								
Methylene chloride	98		94		70-130	4		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	98		93		63-132	5		20
1,2-Dichloropropane	100		95		70-130	5		20
Dibromochloromethane	84		80		63-130	5		20
1,1,2-Trichloroethane	90		89		70-130	1		20
Tetrachloroethene	92		83		70-130	10		20
Chlorobenzene	98		91		75-130	7		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	98		93		67-130	5		20
Bromodichloromethane	96		92		67-130	4		20
trans-1,3-Dichloropropene	89		84		70-130	6		20
cis-1,3-Dichloropropene	90		86		70-130	5		20
Bromoform	73		74		54-136	1		20
1,1,2,2-Tetrachloroethane	83		90		67-130	8		20
Benzene	100		94		70-130	6		20
Toluene	99		91		70-130	8		20
Ethylbenzene	100		95		70-130	5		20
Chloromethane	110		100		64-130	10		20
Bromomethane	82		80		39-139	2		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO GWM

Project Number: 4348-0001B000-04

Lab Number: L2422873

Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1917363-3 WG1917363-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	93		88		61-145	6		20
trans-1,2-Dichloroethene	98		92		70-130	6		20
Trichloroethene	99		89		70-130	11		20
1,2-Dichlorobenzene	94		90		70-130	4		20
1,3-Dichlorobenzene	96		89		70-130	8		20
1,4-Dichlorobenzene	96		90		70-130	6		20
Methyl tert butyl ether	82		86		63-130	5		20
p/m-Xylene	100		90		70-130	11		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		93		70-130	7		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	87		87		36-147	0		20
Acetone	96		110		58-148	14		20
Carbon disulfide	100		92		51-130	8		20
2-Butanone	79		93		63-138	16		20
4-Methyl-2-pentanone	75		88		59-130	16		20
2-Hexanone	84		97		57-130	14		20
Bromochloromethane	91		92		70-130	1		20
1,2-Dibromoethane	85		87		70-130	2		20
n-Butylbenzene	100		96		53-136	4		20
sec-Butylbenzene	99		92		70-130	7		20
1,2-Dibromo-3-chloropropane	68		77		41-144	12		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1917363-3 WG1917363-4								
Isopropylbenzene	96		90		70-130	6		20
p-Isopropyltoluene	95		88		70-130	8		20
n-Propylbenzene	100		95		69-130	5		20
1,2,3-Trichlorobenzene	86		86		70-130	0		20
1,2,4-Trichlorobenzene	90		87		70-130	3		20
1,3,5-Trimethylbenzene	90		84		64-130	7		20
1,2,4-Trimethylbenzene	94		89		70-130	5		20
Methyl Acetate	84		97		70-130	14		20
Cyclohexane	100		97		70-130	3		20
1,4-Dioxane	88		98		56-162	11		20
Freon-113	96		91		70-130	5		20
Methyl cyclohexane	94		88		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		116		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	100		103		70-130

SEMIVOLATILES

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-02
Client ID: MW-05
Sample Location: CHEEKTOWAGA,NY

Date Collected: 04/25/24 11:32
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 05/09/24 16:18
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/24 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	27.3		ng/l	7.06	1.13	1
Perfluoropentanoic Acid (PFPeA)	67.0		ng/l	3.53	0.944	1
Perfluorobutanesulfonic Acid (PFBS)	1.92		ng/l	1.76	0.591	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	7.06	1.84	1
Perfluorohexanoic Acid (PFHxA)	57.0		ng/l	1.76	0.521	1
Perfluoropentanesulfonic Acid (PFPeS)	0.697	J	ng/l	1.76	0.309	1
Perfluoroheptanoic Acid (PFHpA)	66.8		ng/l	1.76	0.353	1
Perfluorohexanesulfonic Acid (PFHxS)	5.98		ng/l	1.76	0.424	1
Perfluorooctanoic Acid (PFOA)	54.2		ng/l	1.76	0.768	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	7.06	2.38	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.662	J	ng/l	1.76	0.476	1
Perfluorononanoic Acid (PFNA)	17.5		ng/l	1.76	0.556	1
Perfluorooctanesulfonic Acid (PFOS)	28.6		ng/l	1.76	0.803	1
Perfluorodecanoic Acid (PFDA)	11.3		ng/l	1.76	0.715	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	7.06	2.74	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.76	0.547	1
Perfluoroundecanoic Acid (PFUnA)	1.72	J	ng/l	1.76	0.768	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.76	0.406	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.76	0.476	1
Perfluorododecanoic Acid (PFDoA)	2.71		ng/l	1.76	0.812	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.76	0.662	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.76	0.468	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	7.06	0.988	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	7.06	1.11	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.76	0.671	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	7.06	1.46	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	7.06	1.46	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.76	0.768	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-02 Date Collected: 04/25/24 11:32

Client ID: MW-05 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.76	0.812	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	17.6	4.15	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	17.6	2.16	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.53	0.503	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.53	0.468	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.53	0.388	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.53	2.08	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.82	2.91	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	44.1	10.3	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	44.1	6.96	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-02 Date Collected: 04/25/24 11:32

Client ID: MW-05 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	78		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	71		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	47		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	78		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	70		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	64		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	34		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	60		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	43		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	56		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	**19**	Q	20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	40		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	20		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	**5**	Q	20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	29		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	75		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	**4**	Q	20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	25		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	**14**	Q	20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	72		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	56		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	58		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	61		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	61		20-150

Project Name: DORO GWM
Lab Number: L2422873
Project Number: 4348-0001B000-04
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-02 RE
Client ID: MW-05
Sample Location: CHEEKTOWAGA,NY

Date Collected: 04/25/24 11:32
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 05/15/24 00:33
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 05/12/24 08:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	16.0	8.72	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	16.0	8.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	77		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	82		20-150

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-04
Client ID: MW-07
Sample Location: CHEEKTOWAGA,NY

Date Collected: 04/25/24 09:29
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 05/09/24 16:31
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/24 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	30.3		ng/l	6.02	0.963	1
Perfluoropentanoic Acid (PFPeA)	60.1		ng/l	3.01	0.805	1
Perfluorobutanesulfonic Acid (PFBS)	7.49		ng/l	1.50	0.504	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.02	1.57	1
Perfluorohexanoic Acid (PFHxA)	53.8		ng/l	1.50	0.444	1
Perfluoropentanesulfonic Acid (PFPeS)	2.64		ng/l	1.50	0.263	1
Perfluoroheptanoic Acid (PFHpA)	69.8		ng/l	1.50	0.301	1
Perfluorohexanesulfonic Acid (PFHxS)	42.1		ng/l	1.50	0.361	1
Perfluorooctanoic Acid (PFOA)	183		ng/l	1.50	0.655	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.02	2.03	1
Perfluoroheptanesulfonic Acid (PFHpS)	5.80		ng/l	1.50	0.406	1
Perfluorononanoic Acid (PFNA)	57.0		ng/l	1.50	0.474	1
Perfluorooctanesulfonic Acid (PFOS)	278		ng/l	1.50	0.685	1
Perfluorodecanoic Acid (PFDA)	28.1		ng/l	1.50	0.610	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.02	2.34	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.50	0.467	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	1.21	J	ng/l	1.50	0.820	1
Perfluoroundecanoic Acid (PFUnA)	7.41		ng/l	1.50	0.655	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.50	0.346	1
Perfluorooctanesulfonamide (PFOSA)	2.88	F	ng/l	1.50	0.406	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.16	J	ng/l	1.50	0.813	1
Perfluorododecanoic Acid (PFDoA)	15.6		ng/l	1.50	0.692	1
Perfluorotridecanoic Acid (PFTrDA)	1.65		ng/l	1.50	0.564	1
Perfluorotetradecanoic Acid (PFTeDA)	4.85		ng/l	1.50	0.399	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.02	0.843	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.02	0.948	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.50	0.572	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-04 Date Collected: 04/25/24 09:29

Client ID: MW-07 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.02	1.24	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.02	1.24	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.50	0.655	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.50	0.692	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.0	3.54	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.0	1.84	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.01	0.429	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.01	0.399	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.01	0.331	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.01	1.78	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.53	2.48	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.6	8.80	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.6	5.94	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-04 Date Collected: 04/25/24 09:29

Client ID: MW-07 Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	96		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	102		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	**191**	Q	20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	98		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	98		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	125		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	81		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	80		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	117		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	88		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	70		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	85		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	85		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	79		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	63		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	81		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	59		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	57		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	60		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	59		20-150

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-05
Client ID: FIELD BLANK
Sample Location: CHEEKTOWAGA,NY

Date Collected: 04/25/24 09:00
Date Received: 04/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 05/09/24 16:43
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/24 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.10	0.976	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.05	0.816	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.52	0.511	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.10	1.59	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.52	0.450	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.52	0.267	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.52	0.305	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.52	0.366	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.52	0.664	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.10	2.06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.52	0.412	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.52	0.480	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.52	0.694	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.52	0.618	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.10	2.37	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.52	0.473	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.52	0.831	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.52	0.664	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.52	0.351	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.52	0.412	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.52	0.824	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.52	0.702	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.52	0.572	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.52	0.404	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.10	0.854	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.10	0.961	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.52	0.580	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-05 Date Collected: 04/25/24 09:00

Client ID: FIELD BLANK Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.10	1.26	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.10	1.26	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.52	0.664	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.52	0.702	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.2	3.58	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.2	1.87	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.05	0.435	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.05	0.404	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.05	0.336	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.05	1.80	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.63	2.52	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	38.1	8.92	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	38.1	6.02	1

Project Name: DORO GWM **Lab Number:** L2422873

Project Number: 4348-0001B000-04 **Report Date:** 05/15/24

SAMPLE RESULTS

Lab ID: L2422873-05 Date Collected: 04/25/24 09:00

Client ID: FIELD BLANK Date Received: 04/25/24

Sample Location: CHEEKTOWAGA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	81		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	83		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	79		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	71		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	73		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	79		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	74		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	74		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	62		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	69		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	85		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	61		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	68		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	62		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	80		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	63		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	65		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	75		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	75		20-150

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/24 14:49
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/24 09:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 02,04-05 Batch: WG1917862-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.67
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.280
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.496
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.896
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.01
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.608

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/24 14:49
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/24 09:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 02,04-05 Batch: WG1917862-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.32
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	1.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.696
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.736
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	3.76
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.96
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.456
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.424
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.352
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	1.89
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.64
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	9.36
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	6.31

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/09/24 14:49
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 05/07/24 09:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 02,04-05 Batch: WG1917862-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	93		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	91		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	90		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	86		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	90		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	80		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	88		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	91		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	89		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	77		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	88		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	95		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	85		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	86		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	79		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	59		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	60		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	84		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	88		20-150

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/14/24 23:55
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 05/12/24 08:08

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 02 Batch: WG1920029-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.67
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.280
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.496
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.896
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.01
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.608

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/14/24 23:55
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 05/12/24 08:08

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 02 Batch: WG1920029-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.32
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	1.32
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.696
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.736
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	3.76
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	2.79	J	ng/l	16.0	1.96
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.456
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.424
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.352
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	1.89
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.64
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	9.36
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	6.31

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 05/14/24 23:55
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 05/12/24 08:08

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 02 Batch: WG1920029-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	86		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	92		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	85		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	85		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	76		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	86		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	91		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	79		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	86		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	86		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	80		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	86		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	79		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	81		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	59		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	84		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	87		20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02,04-05 Batch: WG1917862-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	114		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	99		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	93		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	112		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	100		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	101		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	98		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	99		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	99		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	100		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	107		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	89		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	94		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	100		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	98		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	90		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	90		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	103		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	101		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	91		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	100		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02,04-05 Batch: WG1917862-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	98		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	101		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	108		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	79		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	114		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	106		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	85		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	84		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	101		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	96		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	114		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	99		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	100		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	97		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	110		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	89		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	64		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02,04-05 Batch: WG1917862-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	87				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	71				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	86				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	80				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	89				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	73				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	70				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	91				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	90				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	72				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	88				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	85				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	61				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	64				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	82				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	85				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02,04-05 Batch: WG1917862-3

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorobutanoic Acid (PFBA)	92		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	91		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	90		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	95		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	92		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	95		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	91		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	90		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	88		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	102		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	95		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	95		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	83		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	103		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	90		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	87		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	98		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	99		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	85		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	100		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	89		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	94		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO GWM

Project Number: 4348-0001B000-04

Lab Number: L2422873

Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02,04-05 Batch: WG1917862-3								
Perfluorotridecanoic Acid (PFTrDA)	89		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	97		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	98		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	105		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	72		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	109		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	99		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	106		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	102		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	101		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	100		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	99		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	95		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	96		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	84		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	93		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	89		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	76		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02,04-05 Batch: WG1917862-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	95				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	89				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	94				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	93				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	92				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	94				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	80				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	89				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	103				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	68				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	76				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	84				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	69				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	78				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	71				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	59				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	61				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	75				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	77				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02 Batch: WG1920029-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	89		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	91		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	93		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	91		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	99		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	97		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	95		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	93		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	94		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	96		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	94		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	100		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	81		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	96		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	103		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	92		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	94		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	91		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	99		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	95		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	84		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	90		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04
Lab Number: L2422873
Report Date: 05/15/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02 Batch: WG1920029-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	97		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	93		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	94		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	99		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	87		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	106		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	101		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	88		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	84		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	95		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	93		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	106		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	89		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	93		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	103		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	87		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	74		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	59		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: DORO GWM

Project Number: 4348-0001B000-04

Lab Number: L2422873

Report Date: 05/15/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02 Batch: WG1920029-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	90				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	84				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	84				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	78				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	81				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	87				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	96				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	73				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	88				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	78				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	89				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	87				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	57				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	63				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	82				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	86				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02 Batch: WG1920029-3

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorobutanoic Acid (PFBA)	97		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	95		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	91		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	98		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	102		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	97		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	93		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	89		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	102		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	100		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	95		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	89		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	93		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	102		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	104		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	97		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	95		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	107		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	101		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	94		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	94		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02 Batch: WG1920029-3								
Perfluorotridecanoic Acid (PFTrDA)	98		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	97		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	92		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	94		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	93		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	102		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	108		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	114		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	104		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	100		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	99		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	120		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	97		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	96		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	106		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	94		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	91		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	69		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 02 Batch: WG1920029-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	94				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	90				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	75				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	91				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	88				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	76				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	88				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	87				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	87				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	73				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	98				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	89				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	75				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	102				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	97				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	91				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	58				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	62				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	92				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	92				20-150

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2422873-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-02D	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-02E	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-02F	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-04C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L2422873-04D	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-04E	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-04F	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-05D	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)
L2422873-05E	Plastic 500ml unpreserved	A	NA		2.6	Y	Absent		A2-1633-DRAFT(28)

*Values in parentheses indicate holding time in days

Project Name: DORO GWM
Project Number: 4348-0001B000-04

Lab Number: L2422873
Report Date: 05/15/24

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: DORO GWM
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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:	DORO GWM	**Lab Number:**	L2422873
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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.)

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). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	DORO GWM	**Lab Number:**	L2422873
Project Number:	4348-0001B000-04	**Report Date:**	05/15/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

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 of 1

Date Rec'd in Lab: 04/26/24

ALPHA Job #: L2422873

Client Information
Client: Koux
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: (716) 876-4967
Fax:
Email: TBehrendt@Koux.com

Project Information
Project Name: Dara GWM
Project Location: Cheektowaga NY
Project #: 4348.0001B600-04
(Use Project name as Project #)
Project Manager: Chris Bosco
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 VOC 8260	PFAS 1633	Total # Bottles	Sample Specific Comments
22873-01	MW-04	4/25/24	1227	Water	TAB	X		3	
-02	MW-~~05~~ 05		1132			X	X	6	
-03	MW-06		1037			X		3	
-04	MW-~~07~~ 07		929			X	X	6	
-05	Field Blank		900				X	2	

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	P							
Preservative	B	A							

Relinquished By:	Date/Time	Received By:	Date/Time
	4/25/24 1614		4/25/24 1614
	4/25/24 1114		4/26/24 0045

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)

ROUX

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Doso GWM

Date: 4/25/24

Project No.:

Client: Doso

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	830	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☒ 6212375 ☐ 6243003 ☐ 6223973 ☐	TAB	4.00	3.98	
						7.00	6.99	
						10.01	9.98	
☒ Turbidity meter	NTU	0830	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☒ 17110C062619 (Q) ☐	TAB	10 NTU verification	9.98	10.0
						<0.4		
						20		
						100		
						800		
☒ Sp. Cond. meter	uS mS	0830	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☒ 6243003 ☐ 6223973 ☐	TAB	7.00 mS @ 25 °C	7.044	7.00
☐ PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
☒ Dissolved Oxygen	ppm	0830	HACH Model HQ30d	171932597009 ☒ 100500041867 ☐ 22293299821 ☐	TAB	100% Satuartion	—	
☐ Particulate meter	mg/m^3					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: TAB **DATE:** 4/25/24

ROUX

GROUNDWATER FIELD FORM

Project Name: Roso Clarksburg | Date: 4/25/24

Location: | Project No.: | Field Team: TAB

Well No. MW-05			Diameter (inches): 2"			Sample Date / Time: 4/25/24 1154			
Product Depth (fbTOR): –			Water Column (ft): 3.78			DTW when sampled: 7.28			
DTW (static) (fbTOR): 5.55			One Well Volume (gal): 0.61			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 9.33			Total Volume Purged (gal):			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
1137	0 Initial	0	7.22	11.4	1169	15.0	1.79	-7	clear No odor
1142	1 6.65	0.75	7.06	11.2	1176	450	1.93	19	Turbid "
1145	2 7.15	1.5	7.07	10.8	1171	73.1	2.30	21	SL Turbid "
1150	3 7.45	2.0	7.01	10.7	1152	66.7	2.35	44	" "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1154	S1 7.28	–	7.11	10.8	1132	59.6	2.50	54	" "
1207	S2	–	7.04	11.2	1133	216	3.86	72	" "

Well No. MW-04			Diameter (inches): 2"			Sample Date / Time: 4/25/24 1304			
Product Depth (fbTOR): –			Water Column (ft): 5.57			DTW when sampled:			
DTW (static) (fbTOR): 4.0			One Well Volume (gal): 0.90			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 9.57			Total Volume Purged (gal):			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
1232	0 Initial	0	6.99	12.0	1936	237	1.80	-79	Slight odor
1237	1 7.90	1.0	6.84	12.6	1947	>1000	3.21	-91	
1242	2 Dry	1.25	6.86	13.3	2006	>1000	3.69	-91	
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1304	S1 7.83	–	6.93	15.0	1936	110	2.02	-97	
1212	S2 8.50	–	6.89	14.5	1967	188	3.63		

REMARKS:

Note: All water level 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: TAB

GROUNDWATER FIELD FORM

Project Name: Doso
Location: Cheektowaga
Project No.:
Date: 4/25/24
Field Team: TAS

Well No. MW-07			Diameter (inches): 2"			Sample Date / Time: 4/25/24 1016			
Product Depth (fbTOR): –			Water Column (ft): 10.32			DTW when sampled:			
DTW (static) (fbTOR): 2.44			One Well Volume (gal): 1.68			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 12.76			Total Volume Purged (gal):			Purge Method: Bailer (PVC)			

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
948	0 Initial	0	6.99	10.7	528.1	148	2.36	166	SL TURB, no odor
954	1 5.0	1.5	8.41	10.5	558.1	713	2.37	162	
1002	2 6.41	3.25	8.83	10.7	531.4	585	2.06	134	
1012	3 7.30	5.0	7.95	10.4	896.7	300	1.86	141	
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1016	S1 6.41	–	7.43	10.1	1004	54.6	1.40	121	
1025	S2 6.43	–	7.27	10.4	893.5	158	3.73	115	

Well No. MW-06			Diameter (inches): 2"			Sample Date / Time: 4/25/24 1105			
Product Depth (fbTOR): –			Water Column (ft): 8.24			DTW when sampled:			
DTW (static) (fbTOR): 3.44			One Well Volume (gal): 1.34			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 11.68			Total Volume Purged (gal): 4.5			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
1047	0 Initial	0	7.10	11.3	1103	11.6	1.72	-41	clear, no odor
1052	1 5.84	1.5	7.06	10.8	1120	55.2	1.40	-43	" "
1057	2 8.05	3.0	7.08	10.7	1094	82.5	1.86	-38	" "
1103	3 9.32	4.5	7.09	10.6	1091	192	1.83	-42	" "
~~1113~~	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1105	S1 9.23	–	7.13	10.4	1054	215	2.56	-42	
1113	S2		7.14	10.7	1092	238	2.85	-38	

REMARKS:

Note: All water level 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: TAS

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Doro
WELL NUMBER: MW-07
Project Number:
Sample Matrix: ☐ GROUNDWATER ☐
Client: Doro
Weather: Partly Cloudy upper 30's

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	4.03 / 4.0	Bottom Depth (fbTOR):	9.57
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	

PDB DATA:

Depth of PDB in well (fbTOR):	8.0'	Is PDB harness and line dedicated to sample location?	yes (no)
Condition of Well:	Good	Is PDB located at center of screen?	(yes) no
Field Personnel:	TH+CS		

Installation:

Date of PDB placement.	3/28/24
Time of PDB placement:	1001

Retrieval:

Date of PDB retrieval.	3/25/24
Time of PDB retrieval:	1227
Condition of PDB:	

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE ☒ MOBILE CARBON UNIT
☐ CONTAINERIZED ☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS: PID 0.4 ppm

PREPARED BY: TH+CS

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Dover — WELL NUMBER: MW-05

Project Number: — Sample Matrix: ☒ GROUNDWATER ☐

Client: Dover — Weather: Partly cloudy upper 30's

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	5.36 / 5.55	Bottom Depth (fbTOR):	9.33
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flush mount

PDB DATA:

Depth of PDB in well (fbTOR):		Is PDB harness and line dedicated to sample location?	yes (no)
Condition of Well:	Good	Is PDB located at center of screen?	(yes) no
Field Personnel:	DAB		

Installation:

Date of PDB placement.	3/28/24
Time of PDB placement:	959

Retrieval:

Date of PDB retrieval.	4/25/24
Time of PDB retrieval:	1132
Condition of PDB:	Good

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE ☒ MOBILE CARBON UNIT

☐ CONTAINERIZED ☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS: PID 1.2 ppm

PREPARED BY: DAB

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Dorco
WELL NUMBER: MW-06
Project Number:
Sample Matrix: ☑ GROUNDWATER ☐
Client: Dorco
Weather: partly cloudy upper 30's

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	3.70 / 3.44	Bottom Depth (fbTOR):	12.76
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flush

PDB DATA:

Depth of PDB in well (fbTOR):		Is PDB harness and line dedicated to sample location?	yes (no)
Condition of Well:	Good	Is PDB located at center of screen?	(yes) no
Field Personnel:	TH3		

Installation:

Date of PDB placement.	3/28/24
Time of PDB placement:	933

Retrieval:

Date of PDB retrieval.	4/25/24
Time of PDB retrieval:	1037
Condition of PDB:	good

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE ☒ MOBILE CARBON UNIT
☐ CONTAINERIZED ☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS:

RED 1.7 ppm

PREPARED BY: TH3

ROUX

GROUNDWATER WELL
PDB COLLECTION & RECOVERY LOG
(PASSIVE DIFFUSION BAG)

Project Name: Posco
WELL NUMBER: MW-67

Project Number:
Sample Matrix: ☐ GROUNDWATER ☐

Client: Posco
Weather: Partly cloudy upper 30's

WELL DATA:

Casing Diameter (inches):	2"	Casing Material:	PVC
Screened interval (fbTOR):		Screen Material:	PVC
Static Water Level (fbTOR):	1.53/2.44	Bottom Depth (fbTOR):	12.76
Elevation Top of Well Riser (fmsl):		Ground Surface Elevation (fmsl):	
Elevation Top of Screen (fmsl):		Stick-up (feet):	Flush

PDB DATA:

Depth of PDB in well (fbTOR):	10'	Is PDB harness and line dedicated to sample location?	(yes)	no
Condition of Well:	Good	Is PDB located at center of screen?	yes	(no)
Field Personnel:	TAB			

Installation:

Date of PDB placement.	3/28/24
Time of PDB placement:	940

Retrieval:

Date of PDB retrieval.	4/25/24
Time of PDB retrieval:	929
Condition of PDB:	Good

Disposal:

Remaining groundwater disposal method:

☐ GROUND SURFACE ☒ MOBILE CARBON UNIT
☐ CONTAINERIZED ☐ OTHER

If PDB contains visible sediment, check PDB integrity and re-sample.

COMMENTS: PID 0.0

PREPARED BY: TAB