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February 14, 2025
Refer to OP- 4746

Ms. Megan Kuczka
New York State Department of Environmental Conservation, Region 9
700 Delaware Avenue
Buffalo, New York 14209

Subject: Annual Periodic Review Report; Closure Year 28 (2024);
Union Road Site, Erie County, Cheektowaga, NY
Inactive Hazardous Waste Disposal Site No. 915128

Dear Ms. Kuczka:

On behalf of American Premier Underwriters, Inc., Unicorn Management Consultants, LLC (UMC) hereby submits the revised Annual Periodic Review Report (PRR) for closure year 28 (2024) for the subject site. The revised PRR incorporates New York State Department of Environmental Conservation comments received via email correspondence dated January 30, 2025.

Also enclosed is the revised NYSDEC Institutional and Engineering Controls Certification form for 2024.

If you have any questions regarding this report, please call me at 203-205-9000, ext. 13.

Sincerely,

Unicorn Management Consultants, LLC

A handwritten signature in black ink, appearing to read "Michael O'Connor".

Michael J. O'Connor, LEP, P.G.
Manager of Environmental Projects
Union Road Remediation Project

Attachments

cc: M. Cioffi
L. Lackner (w/o attachment)
M. Hill, Esq.

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**ANNUAL PERIODIC REVIEW REPORT
CLOSURE YEAR 28 (2024)**

**UNION ROAD SITE
TOWN OF CHEEKTOWAGA
ERIE COUNTY, NEW YORK
(SITE REGISTRY NO. 9-15-128)**

Prepared for:

**AMERICAN PREMIER UNDERWRITERS, INC.
(FORMERLY THE PENN CENTRAL CORPORATION)
ONE EAST FOURTH STREET
CINCINNATI, OHIO 45202**

Prepared by:

**UNICORN MANAGEMENT CONSULTANTS, LLC
52 FEDERAL ROAD, SUITE 2C
DANBURY, CT 06810**

January 25, 2025, Revised February 14, 2025



Document Authorization Form

**Annual Periodic Review Report
Closure Year 28 (2024)**

**Union Road Site
Town of Cheektowaga
Erie County, New York
(Site Registry No. 9-15-128)**

Prepared for:

**American Premier Underwriters, Inc.
(Formerly The Penn Central Corporation)
One East Fourth Street
Cincinnati, Ohio 45202**

Prepared by:

**UNICORN MANAGEMENT CONSULTANTS, LLC
52 FEDERAL ROAD, SUITE 2C
DANBURY, CT 06810**

January 25, 2025, Revised February 14, 2025

AUTHORIZATIONS:

**Michael J. O'Connor, LEP, PG.
Manager of Environmental Projects**

Date

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1 INTRODUCTION

This Periodic Review Report (PRR) has been prepared by Unicorn Management Consultants, LLC (UMC), on behalf of American Premier Underwriters, Inc. (APU). The purpose of this PRR is to demonstrate compliance with Section 126 of the Union Road Site Remedial Design Report (Design Report), approved by the New York State Department of Environmental Conservation (NYSDEC) in May 1995. Specifically, the Design Report Section 12 presents the Operation and Maintenance Plan (O&M Plan) for the Site including the subsections 12.4 Monitoring, Testing and Records (including the Groundwater Monitoring Plan [GMP] and On-Site Treatment Plant Performance Monitoring); 12.5 Site Maintenance (including periodic inspection requirements); 12.6 Reports (including this PRR), and other relevant tasks.

The purpose of this PRR is to document all post remedial construction activities, including but not limited to data collection and implementation of the O&M Plan that occurred during the certifying reporting period. Please note that pursuant to a letter dated October 18, 2001, from Blank Rome Comisky and McCauley, LLP (APU's legal counsel), effective October 19, 2001, APU designated UMC as their environmental consultants. Currently, UMC on behalf of APU, submits an annual PRR report to the NYSDEC.

1.1 BACKGROUND

The Union Road site ("the Site") is a Class 4 Site as defined by the NYSDEC. The Site registry number is 915128. The Site is located at 333 Losson Road in Cheektowaga, New York (see Figure 1-1). A Record of Decision (ROD) for the Site was signed on March 9, 1992. Order on Consent Index No. B9-0148-92-03 was signed by The Penn Central Corporation (currently, APU) and the NYSDEC; the effective date of the Order is April 12, 1994. Appendix "B" of the Order is the Final Remedial Action Work Plan (the "Work Plan"), dated June 18, 1993.

As required in Section 4.2 of the Work Plan, the design documents, including the Union Road Site Remedial Design Report, were submitted in May 1995 to the NYSDEC and were subsequently approved. After approval, work commenced and the landfill closure was completed in December 1996. Figure 1-2 illustrates a plan view of the Site closure.

The O&M Plan activities for the Site went into effect following the landfill closure. This report presents and summarizes the activities conducted and analytical data for groundwater samples

collected on Site during Closure Year 28 (2024). The 2023 Groundwater Monitoring Plan Sampling Event is the 30th sampling event since the landfill closure. UMC also collected a TPH sample from MW-10D in 2024, per NYSDEC request. However, for the purposes of this report and future ones, UMC is not considering the 2024 sampling of MW-10D as a biennial groundwater sampling event. The last biennial groundwater sampling event was in 2023 and the next biennial groundwater sampling event will take place in 2025.

The next section discussed the O&M Plan activities conducted during the 2024 certifying period.

2 OPERATION AND MAINTENANCE ACTIVITIES CONDUCTED IN 2024

2.1 WELL NETWORK INSTALLATION

Installation of monitoring wells proceeded according to Section 02170 of the Technical Specifications. Installation of the interior wells occurred from February 19-23, 1996. Installation of the exterior wells took place from December 10, 1996 through January 6, 1997 and August 19, 1997.

As proposed in the GMP, five well clusters were installed along the outside perimeter of the slurry wall. These exterior wells are identified as MW-10S/M/D, MW-11S/M, MW-12S/M/D, MW-13S/M, and MW-14S. Adjacent to these wells, along the inside perimeter of the slurry wall, five shallow wells identified as MW-15, MW-16, MW-17, MW-18, and MW-19 were installed.

Three additional shallow wells (not originally proposed) were also installed. These wells (MW-20, MW-21, and MW-22) were installed in the center of the landfill to monitor the elevation of groundwater inside the landfill closure. Proposed well MW-20S adjacent to the outfall of the new wetland was installed; however, the identification of this well was changed from MW-20S to MW-23S. As discussed in the Groundwater Monitoring Report for the Second Quarter 1997, the original Monitoring Well 14S (MW-14S) was decommissioned and the replacement was reinstalled nine feet southwest (along the fence line). The MW-14S replacement was installed, surveyed and developed on August 19, 1997. Well designations and locations are shown on Figure 2-1.

The following sections discuss the groundwater elevation monitoring and sampling events related to the O&M Plan and GMP.

2.2 GROUNDWATER ELEVATION MONITORING

The purpose of groundwater elevation monitoring is to determine the groundwater gradient of the three hydrogeologic units in and around the closure area. The three hydrogeologic units (layers) are:

- The overburden layer (shallow), which is above the clay layer;
- The till layer (medium), which is beneath the clay layer; and
- Bedrock (deep), which is beneath the till layer.

As stated in the NYSDEC approved Design Report, the frequency of groundwater elevation measurements are as follows:

- Monthly for the first six months after closure (Jan – June 1997);
- Quarterly thereafter until the end of year two (July 1997 – December 1998); and
- Annually (during the dry season) thereafter.

The objective for collecting groundwater elevation measurements is to gain knowledge of the groundwater flows and hydraulic gradients in and around the closure to determine if the lined landfill is performing well in containing the contents or if there is a potential for failure. This information is used to generate groundwater contour maps and demonstrate an inward gradient of groundwater around the closure.

2.2.1 Groundwater Elevation Measurement Procedures

In order to properly measure groundwater elevation, the following general procedures are followed by UMC:

1. A UMC technician places sorbent pad around the base of the well to ensure no contamination of the surrounding area, unlocks the well, removes the well plug, and dons a pair of nitrile gloves to prevent contamination.
2. The technician then lowers an interface probe into the well to measure the depth to product and depth to water. After these measurements are taken, the probe is removed from the well and decontaminated using one round of Alconox soap, alcohol and deionized water. The measurements taken are used to calculate the wells total volume, product elevation and thickness, and groundwater elevation.
3. After these measurements are taken, the well is plugged and well cap is secured and locked.

2.2.2 2024 Annual Groundwater Elevation Monitoring

On August 20 and 21, 2024, UMC conducted the 2024 groundwater elevation monitoring activities. UMC measured depth to groundwater from a total of 19 groundwater monitoring wells on Site. Depth to product (light non-aqueous phase liquid or LNAPL) was measurable in 2 of the 19 monitoring wells evaluated, specifically the interior wells MW-20 and MW-22. Table 2-1 summarizes the depth measurements completed on the wells during the 2024 groundwater elevation monitoring event. Tables 2-2 through 2-7 detail the analytical results of the 2023 biennial groundwater monitoring event and NYSDEC requested MW-10D sampling for TPH. Table 2-1 presents the groundwater elevations which are calculated by subtracting the depth to water from the original riser elevations measured in 1997. In wells with measurable LNAPL thickness, a LNAPL specific gravity of 0.90 was used to calculate a corrected groundwater elevation for the depression of the LNAPL/groundwater interface caused by the weight of the LNAPL. The data from Table 2-1 were used to create groundwater contour maps (Figures 2-3 through 2-5) which depict groundwater elevations and inferred groundwater flow directions in the three hydrogeologic units (shallow, medium, and deep) as defined in Section 2.2 above.

Figure 2-3 shows an inward gradient of shallow (overburden) groundwater across the slurry wall and towards the dewatering trench at the east corner of the closure. Figure 2-4 depicts groundwater elevations in the medium unit. The inferred groundwater flow direction for the medium unit is toward the east. Figure 2-5 depicts the groundwater elevations in the deep unit. As there are only

two wells installed in this unit, producing groundwater contours is not possible as this requires a minimum of three wells. The inferred groundwater flow direction for the deep unit cannot be determined due to a lack of deep monitoring wells to monitor. Flow is generally toward the southeast and east respectfully and has not been affected by the placement of the landfill closure. Figure 2-6 depicts the groundwater elevation in the interior of the closure area. The contours show that the fluids in the closure area flow to the center of the closure with elevation lower than the groundwater elevations outside the closure. With higher groundwater levels outside the closure, the fluids in the closure would be prevented from migrating outside because the higher hydraulic pressure of the groundwater would prevent such movement.

The following section discusses the biennial groundwater monitoring plan (GMP) that includes groundwater elevation monitoring and groundwater sampling.

2.3 GROUNDWATER MONITORING PLAN

The purpose of the GMP is as follows:

- To evaluate the groundwater quality to assess the effectiveness of the remedial action performed in accordance with 1995 Design Report, and
- To monitor the groundwater gradient of the three hydrogeologic units in and around the closure area.

The GMP consists of these elements:

- The installation of groundwater monitoring wells inside and outside the slurry wall around the landfill closure;
- The collection and analyses of groundwater samples; and
- The determination of groundwater elevations (see Section 2.1 above).

According to the GMP, groundwater samples are collected from the monitoring wells by the following schedule:

- Quarterly the first year (1997);
- Semi-annually the second year (1998);
- Annually, during the dry season (1999 to 2019); and
- Biennially thereafter.

The parameters and applicable methods for the analyses are as follows:

- Total petroleum hydrocarbons (TPH) by EPA Method 1664B;
- Volatile organic compounds (VOCs) by EPA Method 8260C;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270D; and
- Soluble metals (dissolved lead and arsenic) by EPA Method 6010C, respectively.

According to a letter dated January 24, 2020, NYSDEC revised the groundwater sampling schedule from annual to biennial with the last biennial sampling performed during 2023. The revised schedule includes the next groundwater sampling to be performed in 2025 (see Section 3.0).

The sampling frequency, analytical parameters, and/or sampling of specific wells will be modified based on the results of previous sampling events (since the landfill closure) and with written approval from the NYSDEC. In letters dated November 22, 2019 and January 24, 2020, NYSDEC concurred with UMC's assessment that historical analytical data for the Site supported a change in the frequency of the groundwater sampling events from annual to biennial. As such, groundwater samples were last collected from the O&M designated monitoring wells during 2023, with the exception of MW-10D (only) that was sampled only for TPH in 2024 per NYSDEC directive dated May 9, 2024.

Also, the NYSDEC directive dated May 9, 2024, requested that groundwater quality parameters (temperature, pH, Oxygen Reduction Potential [ORP], Conductivity, Nephelometric Turbidity Units [NTU], and Dissolved Oxygen [DO]) be collected during future biennial sampling events from the monitoring wells required to be sampled per the O&M Plan. As stated above, the next biennial sampling event will be in 2025.

To evaluate the immediate effects of remedial activities on the groundwater around the landfill closure, the results of this sampling event are compared to results gathered from previous investigation reports performed by Dvirka and Bartilucci prior to the landfill closure. The data from the reports dated June 1991 and August 1991 are summarized in Table 2-8. Comparison between the averages prior to closure with post closure in the shallow wells shows significant decreases in all of the contaminants analyzed. To determine the continued effectiveness of the containment system, past and future sampling will be compared to the pre-closure concentrations. Per request from the NYSDEC's PRR acceptance letter dated May 9, 2024, UMC has reduced the data summarized on Tables 2-9 and 2-10, to only include the last 10 years of data to evaluate current performance.

2.3.1 Groundwater Sampling Procedures

In order to properly sample groundwater on the Site, the following procedures are followed by UMC:

1. UMC places oil sorbent pads around the base of the well, unlocks the well, removes the cap, and immediately use a Photoionization Detector (PID) to measure Volatile Organic Compounds (VOCs) potentially vaporizing in the well.
2. UMC attaches a well-dedicated bailer to a line of string and will use this setup to manually bail three times the well's volume. This purge water is stored in buckets adjacent to the well while purging/sampling occurs.
3. After purging three times the well's volume, UMC uses another well-dedicate bailer to remove approximately 1 gallon of water from the well. This water is stored in a separate, clean bucket. A Multimeter is lowered into the bucket and after the readings stabilize (for at least 5 minutes) water quality parameters are measured.
4. Concurrent with groundwater quality parameter measuring, the UMC technician will don a new pair of nitrile gloves and use the second well-dedicated bailer to remove and sample water from the well. This water is transferred into laboratory-provided sampling jars/glasses.
5. After sampling, the technician returns all of the purge water from the buckets back into the well. The well plug and lock are returned to the well cap.
6. The UMC technician decontaminates the buckets/multimeter/interface probe with a round of Alconox soap, alcohol, and deionized water. The bailers/string/sorbent pads are disposed of in contractor bags. Overall, UMC ensures that the area is returned to its original state before moving on to the next well.

2.3.2 Summary of Groundwater Quality Parameter Data

Although biennial sampling was not conducted in 2024, groundwater quality parameters were collected from 19 wells located both within the landfill impoundment and around the radius of the slurry wall. the groundwater was measured using a multimeter to determine its temperature, pH, ORP (mV), Conductivity (ms/cm), Turbidity (NTU) and Dissolved Oxygen (mg/L). The resultant data collected from this event is included in Appendix A and collated in Table 2-11.

Future groundwater quality parameter measurements will be collected only during biennial groundwater monitoring events. As stated above the next biennial sampling event will be in 2025.

2.3.3 Summary of Analytical Data from the 2024 sampling of MW-10D

Due to a TPH detection in a groundwater sample collected from MW-10D in 2023, the NYSDEC requested that UMC sample MW-10D for hydrocarbons during the 2024 certifying period. Subsequently, on November 14, 2024, UMC took one groundwater sample from MW-10D which was analyzed for Total Petroleum Hydrocarbons (TPH) using EPA Method 8015C. In total, MW-10D contained 150 ug/L Oil Range Organics (ORO) and 230/560 ug/L Deisel Range Organics (DRO). Due to matrix interference, DRO analysis was run two times, both times exceeding the control limit, the results being 230 and 560 ug/L respectively. UMC presents both results here but will report the higher result (560 ug/L) in subsequent sections of this report.

In addition, a sample was collected from MW-10D for TPH and analyzed by EPA 1664B per the O&M Groundwater Monitoring Plan. The results of the TPH by EPA 1664B was non-detect at laboratory reporting limits. The TPH by 1664B results are presented on Figure 2-9c. Analytical reports for the MW-10D samples is included in Appendix D.

2.3.4 Summary of Historical Analytical Data

Since the landfill closure in 1997, groundwater sampling has been conducted a total of 30 times. The data from the last 10 events, 2014 up to the 2024 MW-10D TPH sampling event, is presented in Tables 2-9 and 2-10 of this report. Total values for SVOCs, VOCs, TPH (by EPA Method 1664B), soluble arsenic, and soluble lead are presented in Figures 2-7a to 2-17e of this report. In the majority of wells on Site, the total concentrations of these compounds have either declined or remained below laboratory reporting levels since 1997. Upward trends for SVOCs, VOCs, and TPHs were observed in six of the monitoring wells between 1997 and the present day. The upward trends in analyte detections and their corresponding wells are discussed in the following paragraphs.

The upward trend in SVOCs is due to multiple detections in multiple wells between 1997 and the present. The upward trend in SVOCs in MW-11S is due to a detection in 2023 (Caprolactam at 0.013 mg/L) and a detection of the same parameter in 2001. The upward trend in SVOCs in MW-12M is due to a single detection in 2019 (0.120 mg/L of Bis(2-ethylhexyl) Phthalate). The upward trend in MW-13S is due to a single detection in 2018 (0.014 mg/L of Bis(2-ethylhexyl) Phthalate). Caprolactam is an organic compound used in the manufacture of synthetic fibers and other products. There are currently no NYS regulatory standards for this compound. Bis(2-ethylhexyl) Phthalate is an organic compound used in PVC products and other industrial capacities. The upward

trend in TPH is due to a singular detection in 2023 (16.3 mg/L in MW-10D). TPH hasn't been observed in any of the other wells sampled as part of the O&M Plan since 2004.

The upward trend in VOCs is due to a singular detection in 2019 (0.012 mg/L of Acetone in MW-13M). VOCs have not been detected in MW-13M since 2019. The upward trend in VOCs in MW-14S is due to a detection in 2019 (0.014 mg/L of Acetone). VOCs have not been detected in MW-14S since 2019.

Although MW-10D and MW-13M do not have an upward trend in total SVOCs, both had detections of Caprolactam in 2023. Further testing of these wells will determine if there is an increasing trend in SVOCs.

The results of the Deisel Range Organics/Oil Range Organics 8015c analysis on the sample taken from MW-10D on November 14, 2024, showed a detection of 150 ug/L of ORO and a 560 ug/L of DRO in the well; however, TPH analysis by EPA 1664B was non-detect at laboratory detection limits. Additional testing will be required to determine the nature and extent of the hydrocarbon contamination in MW-10D.

2.4 ANNUAL SITE INSPECTION

UMC performed the 2024 Site Inspection on August 22, 2024. The 2024 Site Inspection consisted of walking the Site and documenting any observations. While UMC was completing the Site walk, UMC took photographs of various on-Site features. These photographs are included as Appendix B of this report. UMC was able to complete the site walk without issue. The following sections discuss the various areas of the Site inspected and UMC's observations and remedial actions, if necessary.

2.4.1 Monitoring Well Network Inspection

On June 4, 2024, well locks were replaced. UMC observed that the well pads on MW-12S, MW-12M, MW-12D, MW-11S and MW-11M have heaved and will need to be replaced. Wells in need of repair were also observed during the 2022-2023 PRR certifying period. Multiple wells were identified that exhibited potential heaving, broken well pads, or other repairs that are needed to ensure the integrity of future sampling events.

On November 14, 2024, as part of the 2024 O&M activities and as directed by the NYSDEC letter dated May 9, 2024, UMC accessed the Site to sample MW-10D for TPH. UMC field staff noted a possible obstruction around 20 ft below ground surface within MW-10D. UMC cannot confirm if this obstruction is due to well collapse, a broken screen, or another source because the obstruction cannot be directly observed. UMC plans to have the obstruction removed from MW-10D or if the obstruction cannot be removed, MW-10D will be redrilled.

The repairs to MW-10D along with the well repair needs identified during the Site visit on June 4, 2024, and the well repair needs identified during the 2022-2023 certifying period, are tentatively scheduled for May of 2025. The repairs may result in the drilling of replacement wells or other repairs that may change the elevation data associated with the well network. If any elevation altering repairs are conducted, the well network will be surveyed by a New York State licensed surveyor. UMC will update the NYSDEC as the well repair event develops (see Section 3.0 below for proposed schedule of anticipated 2025 activities).

2.4.2 Roundhouse Area

During the 2024 Site Inspection, UMC observed various gopher holes around the roundhouse area as well as larger holes in the concrete foundation of the roundhouse. These gopher holes are

consistent with other gopher holes that were observed in the same area in 2023. These gopher holes are likely a result of the concrete foundation of the demolished roundhouse area causing surrounding soil to erode into its void spaces underneath the foundation. These gopher holes are small, sparse and do not present a danger to the community around the Site. Overall, the restored roundhouse cover remains undamaged and the grass cover is well maintained, with the exception of approximately five gopher holes that pepper the Restored Roundhouse Area. These gopher holes are between 3-5 inches in diameter and are deeper than the extent of the restored roundhouse area soil cover. UMC addresses the scheduled repair of these gopher holes in Section 3 of this report.

During the same Site inspection, UMC took note of the area within the roundhouse area where the Former Roundhouse Area Investigation took place in 2023. The areas where the test pits were excavated and replaced have not been disturbed since 2023. Small amounts of vegetation were observed growing in and around these test pits. Overall, this area remains undisturbed since the Former Roundhouse Area Investigation took place in 2023.

2.4.3 Landfill Closure

There are no signs of erosion, no areas of distressed vegetation, and no evidence of any outbreak of any substance (slurry wall material or oil) observed on the landfill. Erie County Water Company has previously been notified that a small quantity of contaminated soil is located northeast of the new wetland area and beneath the existing water pipe. UMC has an account with Dig Safely New York so when someone needs to dig in the area and calls Dig Safely, UMC will be notified.

UMC observed dirt bike/ATV tracks outside the fence perimeter, no damage to the landfill cap was noted. No soil disturbances were noted within the enclosed landfill. The gate to the landfill was intact, meaning no one had access to the landfill or the shed. This traffic does not appear to affect the integrity of the capped landfill.

On February 13, 2024, UMC, while conducting the 4Q24 Discharge Sampling Event, observed a fallen tree leaning on the perimeter fence around the landfill area. The fallen tree had not damaged the fence or any other part of the Site. UMC manually removed the tree so it was no longer leaning on the fence.

As requested by the NYSDEC, grass on the landfill area is mowed annually. Annual Mowing was performed on November 14, 2024.

2.4.4 Wetland Restoration

The wetlands north of the landfill closure, which was created during the remediation activities has continued to reestablish itself. The wetlands have completely revegetated and wildlife (e.g., ducks, geese, foxes and deer) have returned to the area.

2.4.5 Stream Restoration

A letter to the Town of Cheektowaga (Town) was sent by APU's Legal Counsel on October 7, 2005. This letter informs the Town that it must notify the NYSDEC prior to any activity in those creeks where the reno mattresses are located (see Figure 1-2).

The reno mattresses that were installed in 1995/1996, and repaired in 2006, on the creek channel, have stabilized and vegetation has established itself through the reno mattresses. There is some sediment accumulation within the creek channels, but at some locations the reno mattress wire mesh was visible at the base of the channel. Since the last repair on May 15-16, 2019 of the reno-mattress, no new ATV damage was observed. The reno mattresses installed along the creek were in overall good condition.

At the time of the 2024 Site Inspection, the gabion basket wing-walls were stable, with the exception of a few areas where the wiring was cut and the rocks removed. UMC attempted to repair the gabion baskets in April of 2023; however, UMC was unable to repair the gabion baskets due to insufficient material but was able to repair the hanging fence post above the culvert area. The culvert fence, which was damaged and hanging, was repaired by UMC on March 7, 2024. UMC plans to repair the gabion baskets in the spring of 2025 (see Section 3.0). UMC will continue to monitor this area for ATV damage and will make the necessary repairs as needed. Photos of the stream restoration area have been attached to this document in Appendix B.

2.4.6 Downstream Area

Though some of the trees planted in this area have died, there are no signs of erosion in this area. Grass has established itself in this area. No action is needed at this time. UMC will continue to inspect and repair all closure areas to ensure that the closure remains intact and successful.

2.5 DEWATERING SYSTEM

On May 20th, 2022, UMC submitted an application to discharge wastewater under Erie County/Buffalo Sewer Authority. On July 15th, 2022, the authorization to discharge was issued by the Erie County Department of Environment & Planning and the Buffalo Sewer Authority (BSA). This permit is effective from August 1st, 2022 to July 31st, 2025.

Wastewater discharge sampling occurs every quarter under the directive of the BSA. The 2024 wastewater discharge sample collection process varied from the BSA permit requirements related to the sampling type requirement (grab or composite) for each required permit parameter. In 2024, wastewater discharged from the dewatering system was measured for pH and temperature every 15 minutes, four times, and then was combined as a composite sample. Before combining each of the 15-minute intervals into one composite, a portion of the first sample taken (after the initial 15 minutes) was taken as a grab sample. This grab sample was tested for total phenols and total extractable hydrocarbons. The composite sample was tested for total lead and total suspended solids (TSS). The results of the 2024 monitoring and sampling events are compiled into a Quarterly Discharge Report that is submitted to the BSA and the NYSDEC at the end of every quarter.

During future BSA permit monitoring events, wastewater discharged from the dewatering system will be collected as a single discreet grab sample, collected over a period that is not to exceed 15 minutes, for the analysis of temperature, pH, total phenols, and total extractable petroleum hydrocarbons. In addition, wastewater discharged from the dewatering system will be collected via time-proportional composite sampling, with wastewater collected every 15 minutes, four times, combined to form a composite sample. The time-proportional composite sample will be collected for the analysis of total lead and total suspended solids (TSS). The results of the future BSA monitoring and sampling events will be compiled into a Quarterly Discharge Report, clearly indicating which parameters were collected via grab and composite, that will be submitted to the BSA and the NYSDEC at the end of every quarter.

In addition to the above, UMC inadvertently missed the 4th quarter sampling of the wastewater discharged in 2023. UMC contacted Buffalo Sewer Authority on February 7, 2024 and talked with Mr. Mike Zilagyi. Mr. Zilagyi instructed UMC to sample as soon as possible and submit the results as the 4th quarter sampling. UMC collected the samples on Tuesday, February 13, 2024. The results of this monitoring event and the 2023 4th Quarter Sampling Report are included in this PRR for reference.

On June 4, 2024, UMC travelled to the Site to oversee the replacement of an electric meter attached to the shed on-site. This replacement was performed by GridOne Solutions, Inc. UMC provided a lock for the electric meter and the repair occurred without issue. Photographs of the electric meter replacement are presented within Appendix B.

On November 14, 2024, (while conducting the 4Q24 Discharge Sampling Event) UMC observed that the lock to the shed on-site was rusted and nonfunctional. UMC contacted Buffalo Lockout Services, LLC, who arrived on site that day to replace the lock. The lock was replaced without issue and UMC was provided replacement keys to open the shed. Photographs of the lock replacement are presented within Appendix B.

The dewatering system is currently operating without issue and no NAPL has been observed in the dewatering system discharge. The Quarterly Discharge Reports for 2023 4th Quarter and all four quarters in 2024 are attached to this document within Appendix C.

2.6 CHANGE OF USE

During 2024, there were no changes of use to the Site or groundwater use. UMC will continue to monitor the Site and update the NYSDEC if any change of Site use/groundwater use occur.

3 SCHEDULE OF PERATION & MAINTENANCE ACTIVITIES IN 2025

The following O&M activities are scheduled for 2025:

- Monitoring Well Repair/Replacement Event tentatively scheduled for May 2025 and is expected to be completed within five to seven days.
- Gopher hole evaluation and restoration tentatively scheduled for May 2025 and is expected to be completed within one day
- Gabion Basket Repair tentatively scheduled for May, 2025 and is expected to be completed within one day
- 2025 Groundwater Monitoring Plan Event tentatively scheduled for August 2025 and is expected to be completed within three days
- 2025 Groundwater Elevation Monitoring Event tentatively scheduled for August 2025 and is expected to be completed within three days

- Renewal of the Buffalo Sewer Authority Pollutant Discharge Elimination System Permit (expires July 31, 2025) the application will be submitted by the end of June 2025
- 2025 Quarterly Buffalo Sewer Authority Permit Monitoring/Sampling tentatively scheduled for March, May, August and November 2025, each event will take one day to complete
- 2025 Site Inspection tentatively scheduled for August 2025, depending on NYSDEC availability, and is expected to take one day.

4 CONCLUSION

The groundwater quality within the exterior wells during the 2024 sampling and the groundwater elevation measurements during the 2024 annual monitoring event demonstrate that remedial activities at the Union Road Site are successful. The groundwater quality outside the landfill closure is better than groundwater quality in the interior of the closure.

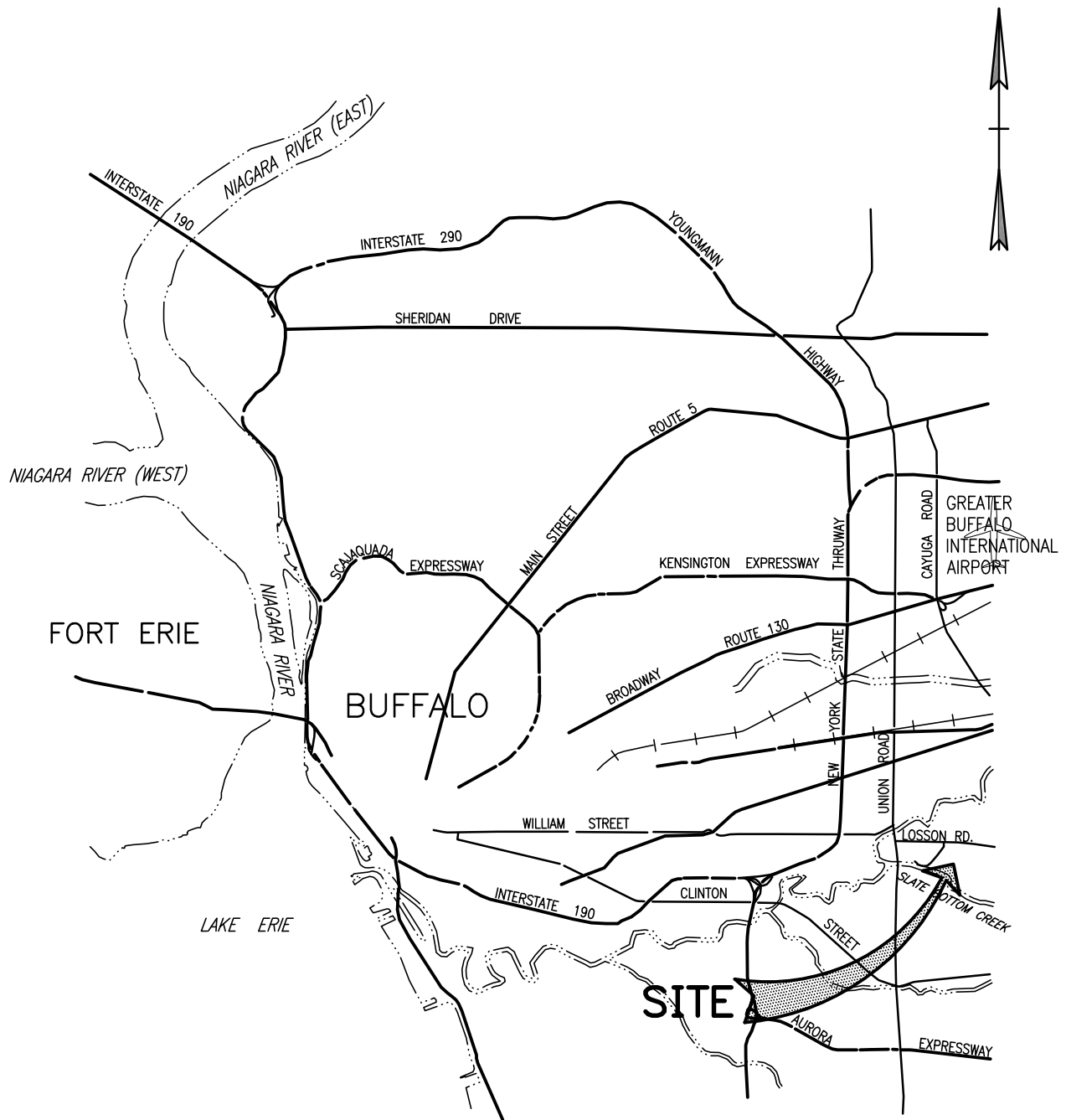
TPH and SVOCs were detected in three of the groundwater samples during the 2023 annual monitoring event and MW-10D in 2024 (by EPA method 8015). The SVOC detected, Caprolactam, has no water quality standard established by the NYSDEC. The TPH detected in MW-10D in 2023 is the only TPH detected since 2004 and may not be indicative of any sitewide trend. The TPH detections in MW-10D in 2024, analyzed by EPA 8015 and EPA 1664B, are not significantly different from the results in 2023 and may not be indicative of a sitewide trend. UMC will continue to monitor these analytes to determine if they continue to impact the site's groundwater.


Soluble lead and arsenic were not detected in any of the groundwater samples collected during the last biennial sampling event conducted in 2023. Likewise, VOCs were not detected in any of the groundwater samples collected during the last biennial sampling event conducted in 2023.

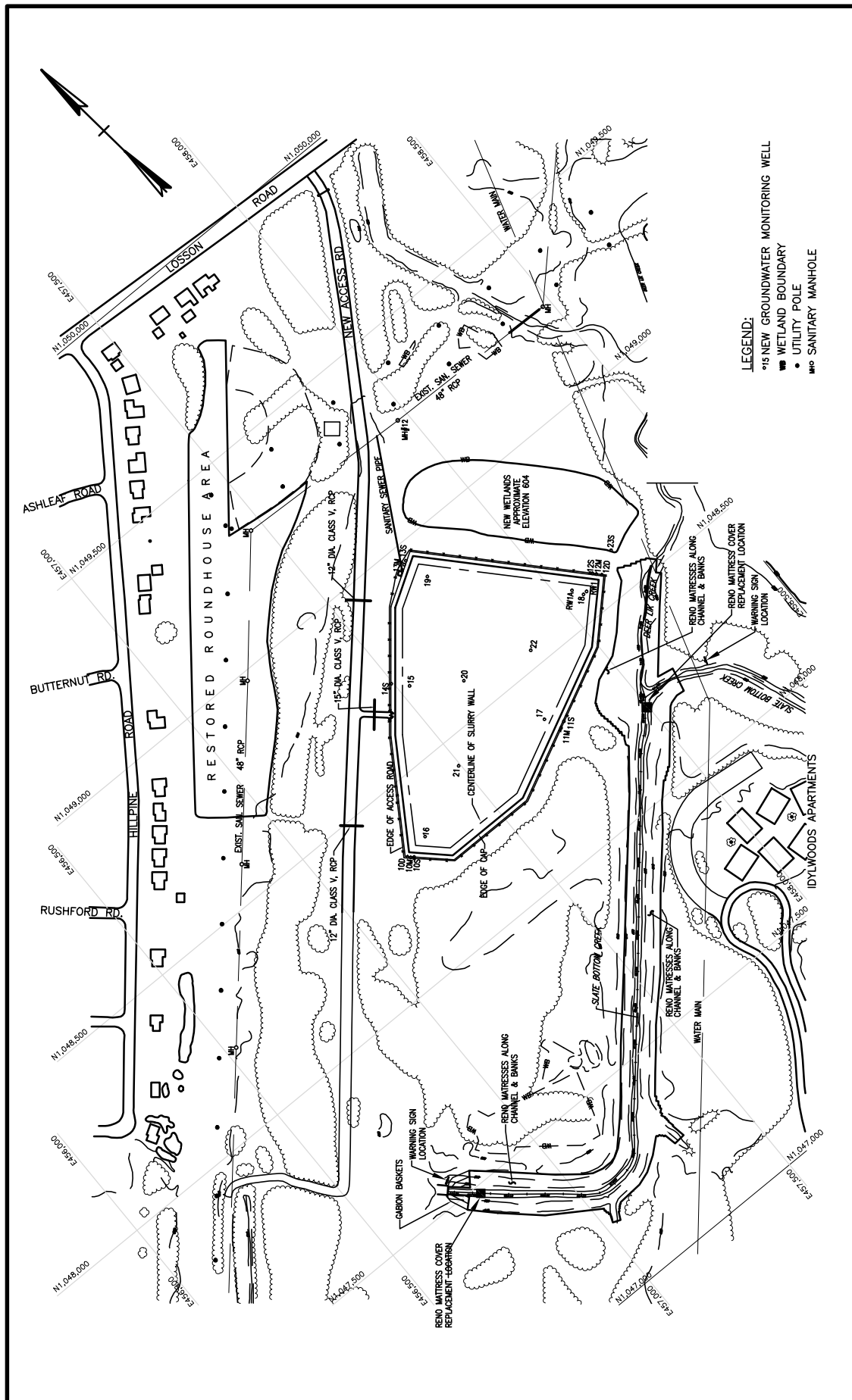
The groundwater elevation measurements indicate that an inward gradient of shallow groundwater flow has been established across the slurry wall. This inward gradient in combination with the groundwater quality outside the closure demonstrates that the contamination is contained within the slurry wall.

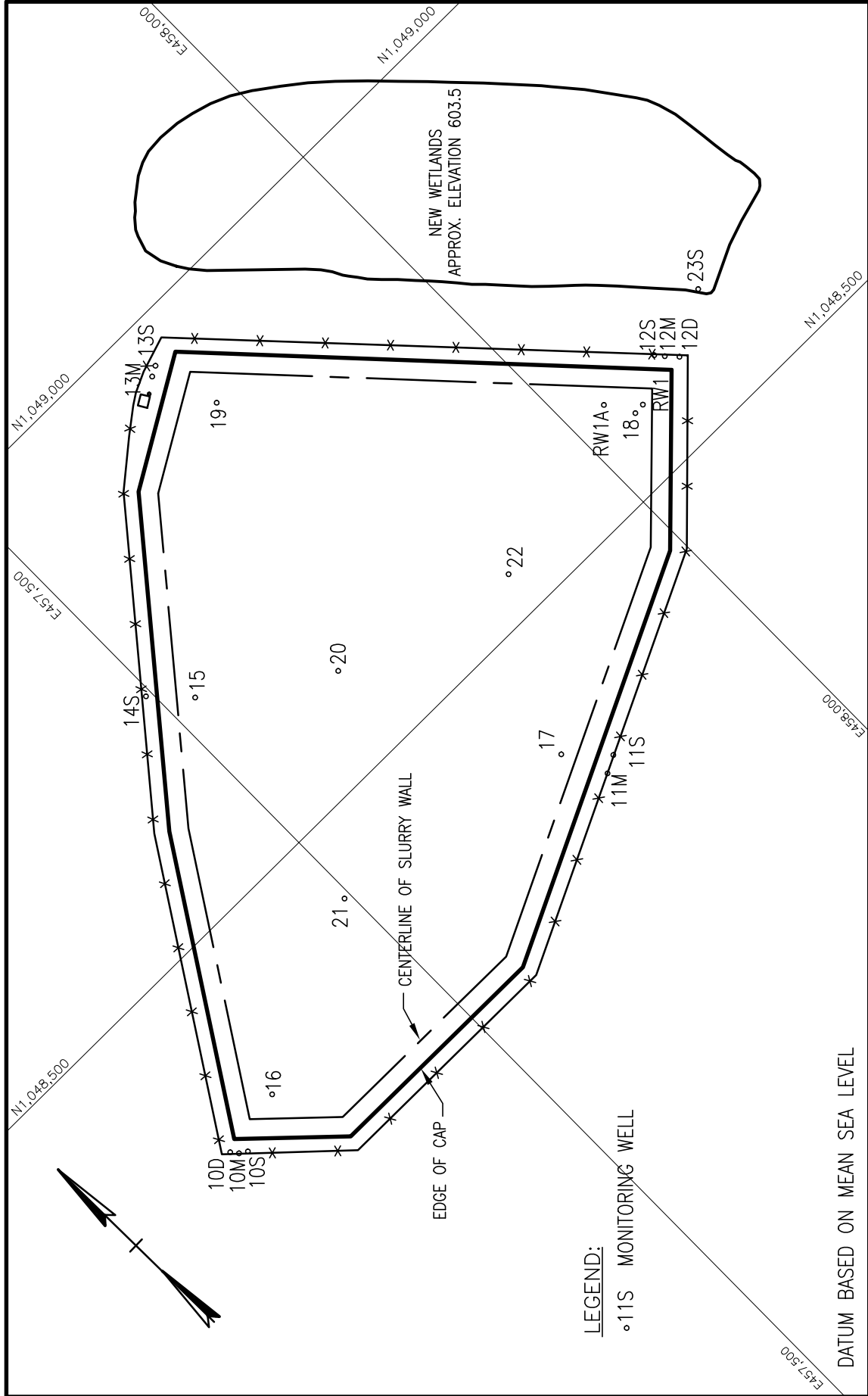
UMC will continue to monitor the Site and evaluate the groundwater surrounding the landfill in accordance with the O&M Plan

FIGURES



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT #
NO.	DATE				2011-200
		DRAWING	LOCATION MAP		FILENAME: UNION_RD SCALE: 1" ~ 2mi DATE: 1/16/02 BY: AD CK: FIGURE # 1-1





REVISIONS		PROJECT	DRAWING
NO.	DATE		
		UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	GROUNDWATER MONITORING WELL LOCATIONS
		<div> <div> <p>Unicorn Management Consultants, LLC</p> <p>52 FEDERAL ROAD DANBURY, CT (203) 205-9000</p> </div> <div> <p>PROJECT # 2011-200</p> <p>FILENAME: 2045100B</p> <p>SCALE: 1" = 150'</p> <p>DATE: 1/15/02</p> <p>BY: AD</p> <p>CK:</p> <p>FIGURE # 2-1</p> </div> </div>	



Unicorn Management
Consultants, LLC

52 Federal Road
Suite 2C
Danbury, CT
06810

(203) 205-9000

Project Name: Union Road

Figure 2-2

Author: NRH

Checked By: RM

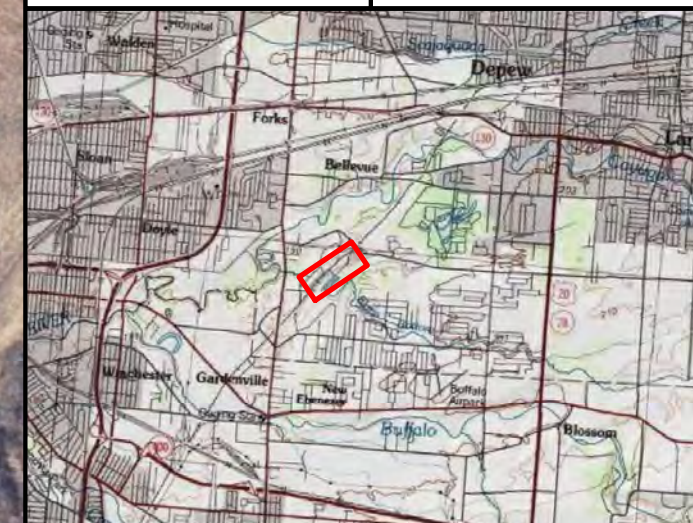
Project #: 2011

Created: 3/15/24

Revised: 3/25/24

Scale: 1 in = 167 ft

File:
Site_Features



Legend

- Monitoring Well Location
- Pumping Well Location
- Fenced Perimeter
- Edge of Cap
- Slurry Wall
- Approximate Wetlands Area

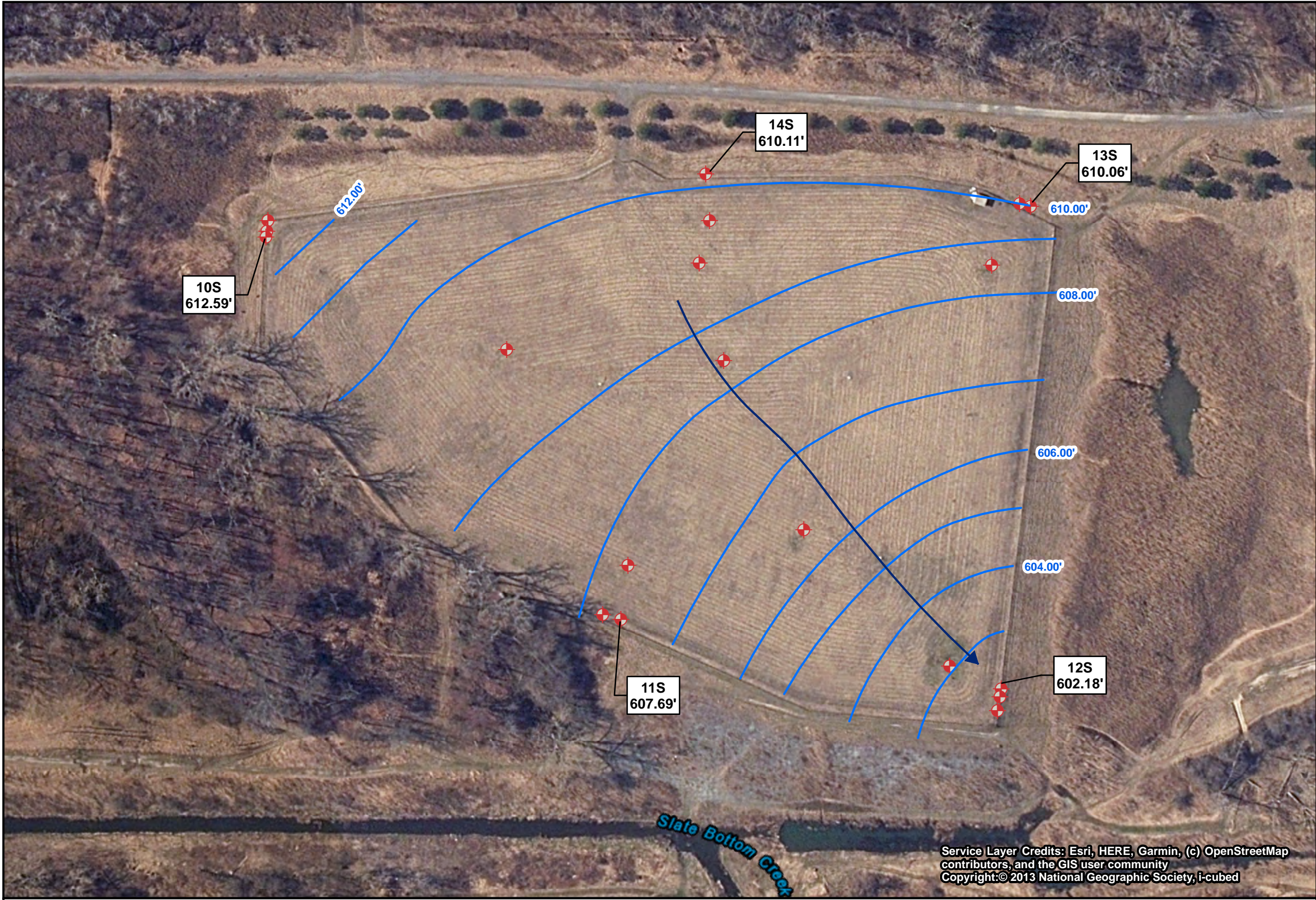
Note:
Monitoring wells, slurry wall, edge of cap, fenced perimeter, and wetlands area are georeferenced from Figure 2-1 of historical APU/UMC Groundwater Monitoring Reports.

Union Road Site Town of Cheektowaga, New York

Site Feature Map



Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
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Project Name: Union Road


Figure 2-3


Author: NRH	Checked By: RM
Project #: 2011	Created: 12/20/22 Revised: 1/16/25
Scale: 1 in = 149 ft	File: Shal_GW_Cont2024



Legend

 Groundwater Flow Direction


 Groundwater Elevation Contour (1 ft.)

 Monitoring Well Location

0100200400
Feet

Union Road Site
Town of Cheektowaga, New York

Shallow Groundwater Elevation Contours
August 20 - 21, 2024 Well Measurements





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Suite 2C
Danbury, CT
06810

(203) 205-9000

Project Name: Union Road

Figure 2-4

Author: NRH

Checked By: RM

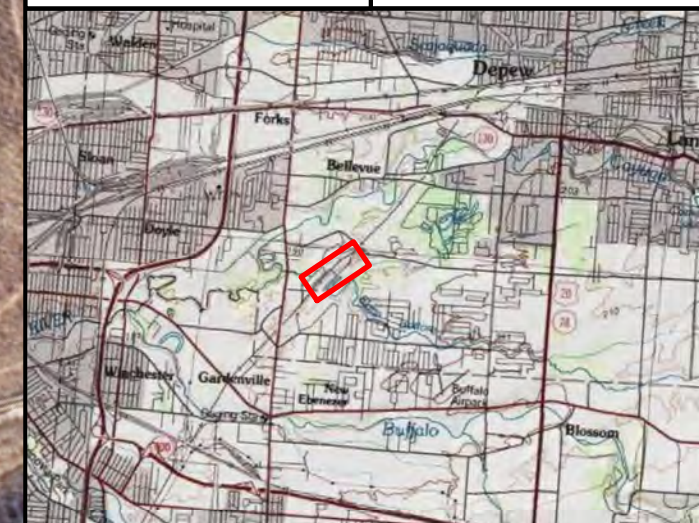
Project #: 2011

Created: 12/20/22




Revised: 1/16/25

Scale: 1 in = 149 ft

File: Int_GW_Cont2024



Legend

-  Monitoring Well Location
-  Groundwater Flow Direction
-  Groundwater Elevation Contour (1 ft.)

10M
608.70'

13M
608.75'

608.00'

606.00'

604.00'

11M
602.75'

12M
602.07'

Slate Bottom Creek

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap
contributors, and the GIS user community
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Union Road Site
Town of Cheektowaga, New York

Intermediate Groundwater Elevation Contours
August 20 - 21, 2024 Well Measurements

0 100 200 400
Feet





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52 Federal Road
Suite 2C
Danbury, CT
06810

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Project Name: Union Road

Figure 2-5

Author: NRH

Checked By:

Project #: 2011

Created: 12/20/22


Revised: 2/13/25

Scale: 1 in = 149 ft

File:
Deep_GW_Cont2024

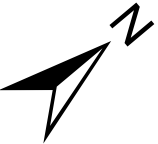


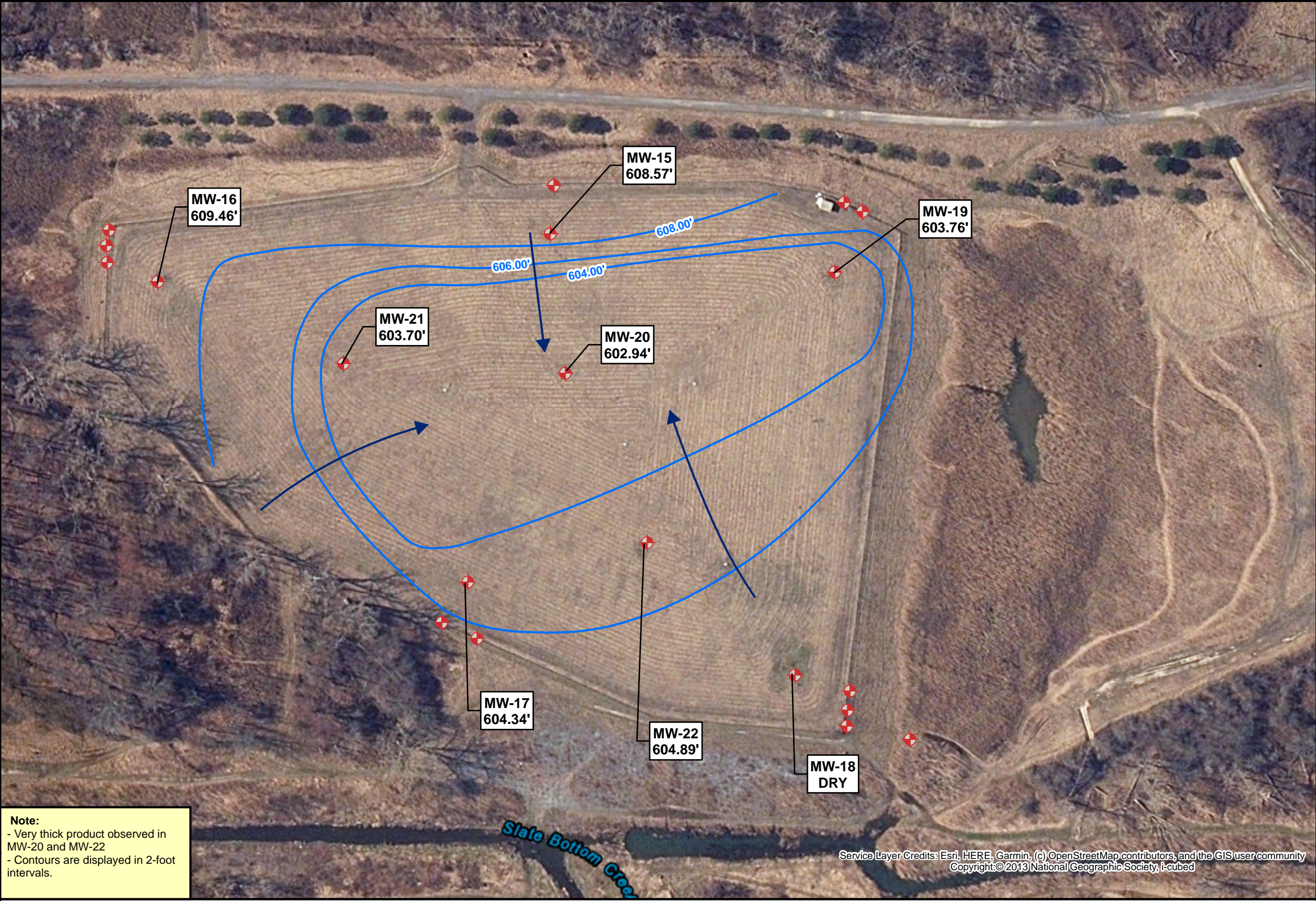
Legend

 Monitoring Well Location

Union Road Site
Town of Cheektowaga, New York

Deep Groundwater Elevation
August 20-21, 2024 and November 14, 2024
Well Measurements





Note:
- Very thick product observed in MW-20 and MW-22
- Contours are displayed in 2-foot intervals.

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52 Federal Road
Suite 2C
Danbury, CT 06810

(203) 205-9000


Project Name: Union Road


Figure 2-6


Author: NRH	Checked By:
Project #: 2011	Created: 12/20/22 Revised: 2/12/25
Scale: 1 in = 149 ft	File: GW_Cont_Inner



Legend

 Monitoring Well Location

 Groundwater Flow Direction

 Groundwater Elevation Contour (2 ft.)

0100200400
Feet

Union Road Site
Town of Cheektowaga, New York
Groundwater Elevation Contours
August 20 - 21, 2024 Well Measurements




Figure 2-7a
MW-10S: Total SVOCs

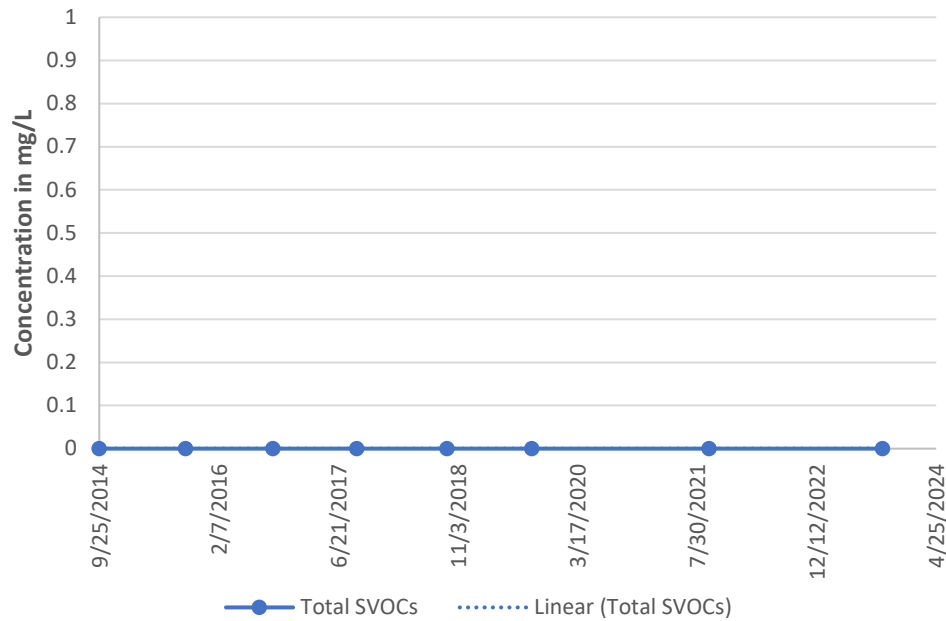


Figure 2-7b
MW-10S: Total VOCs

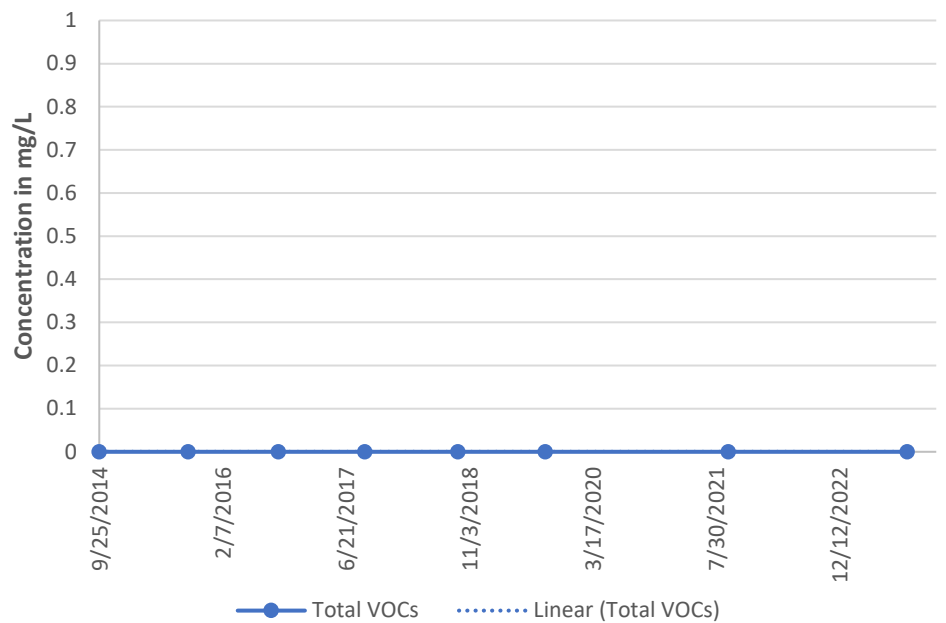


Figure 2-7c
MW-10S: TPH

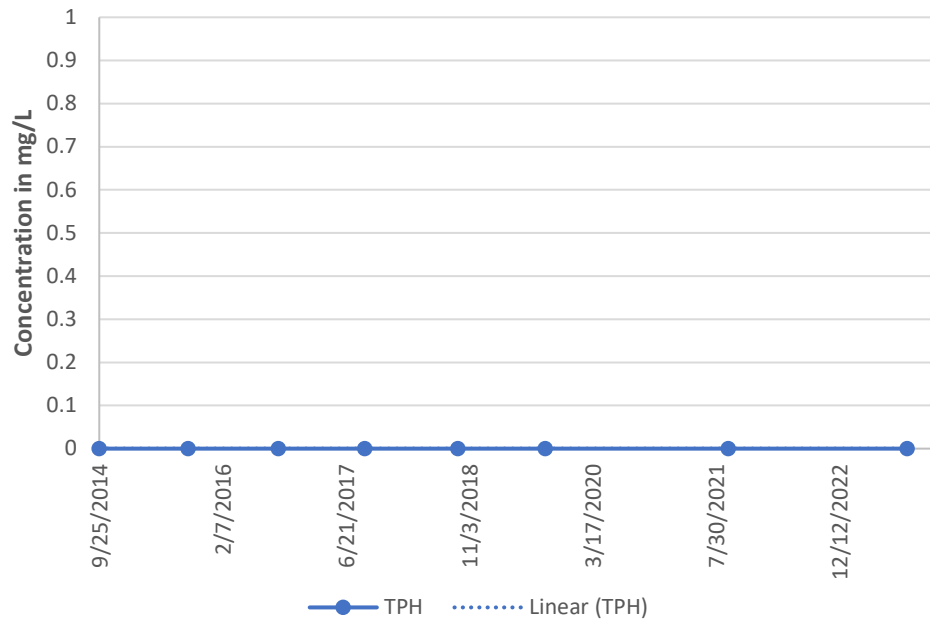


Figure 2-7d
MW-10S: Soluble Arsenic

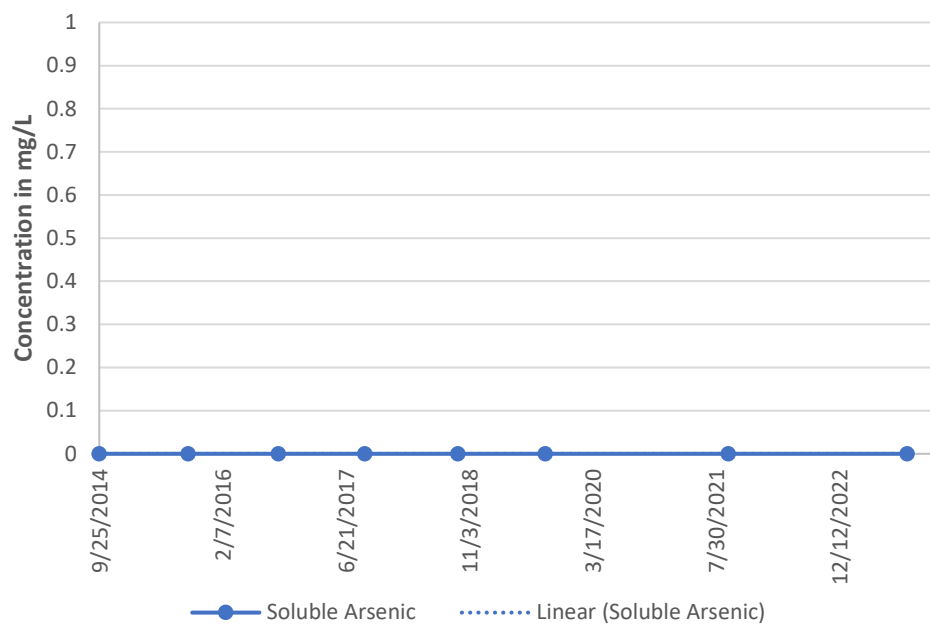


Figure 2-7e
MW-10S: Soluble Lead

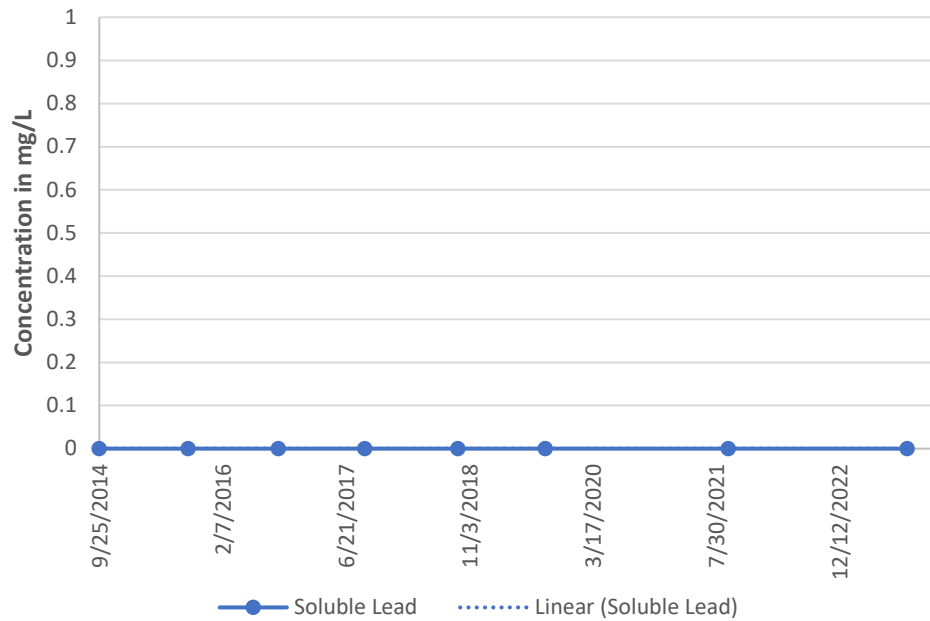


Figure 2-8a
MW-10M: Total SVOCs

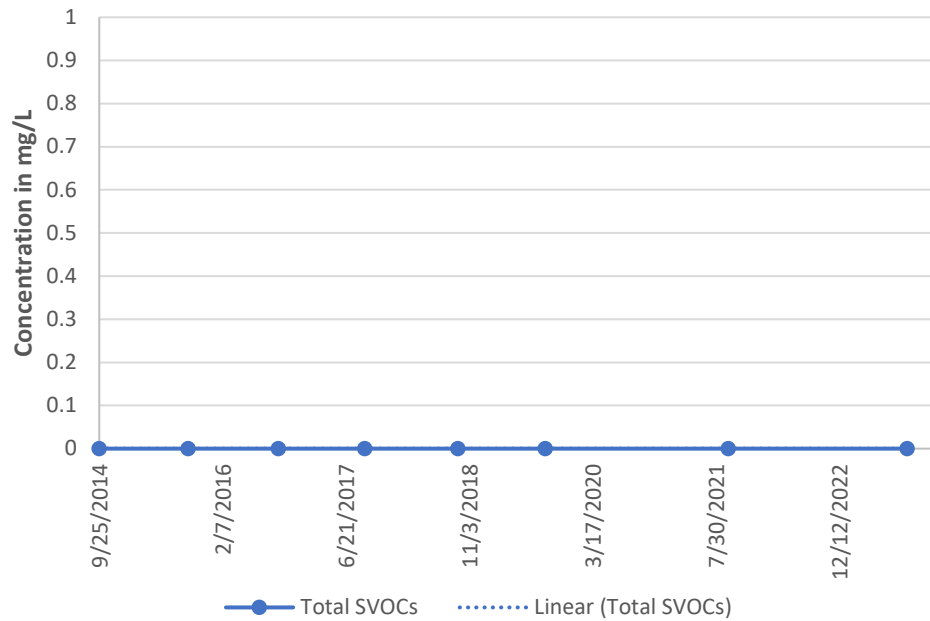


Figure 2-8b
MW-10M: Total VOCs

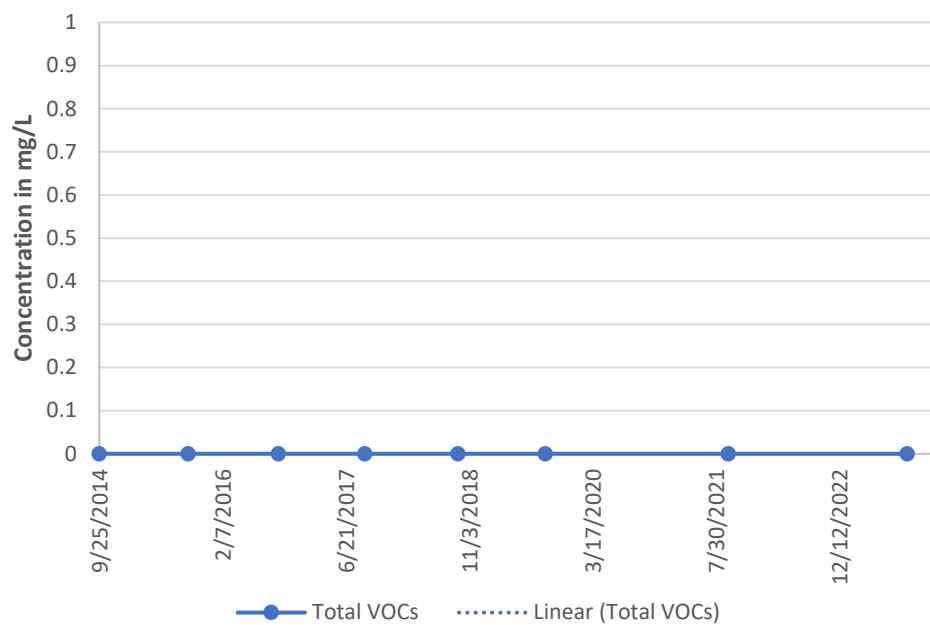


Figure 2-8c
MW-10M: TPH

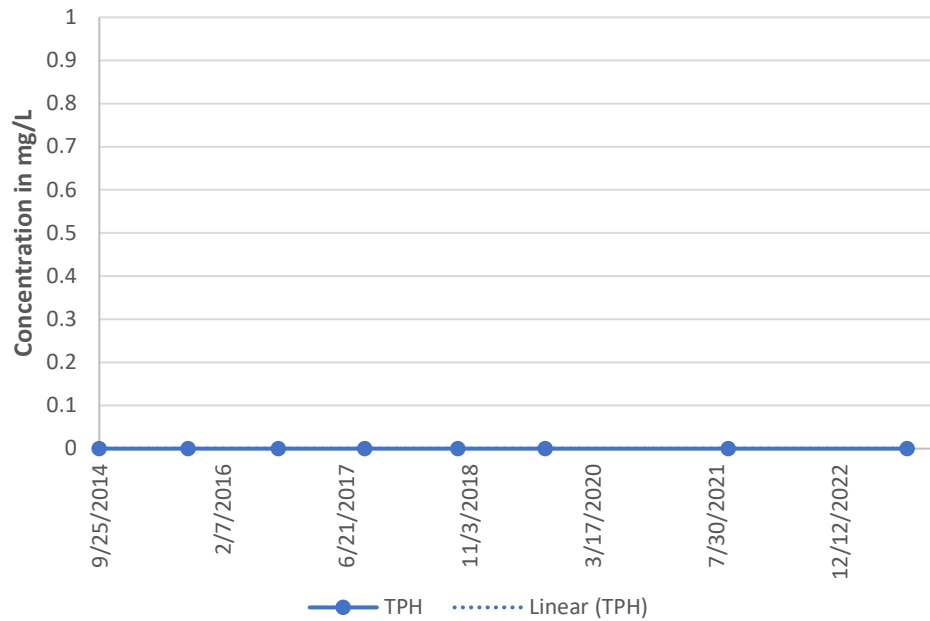


Figure 2-8d
MW-10M: Soluble Arsenic

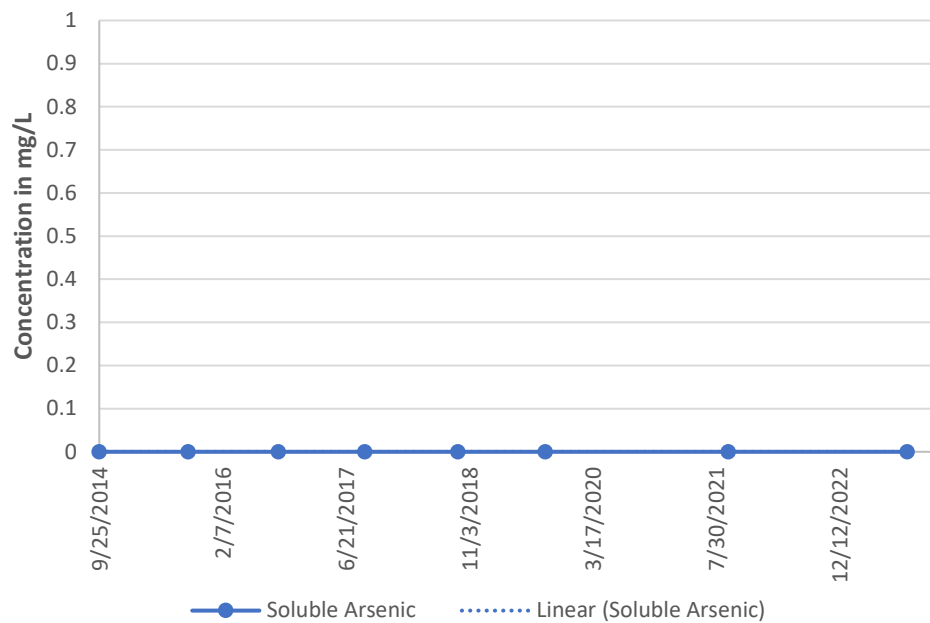


Figure 2-8e
MW-10M: Soluble Lead

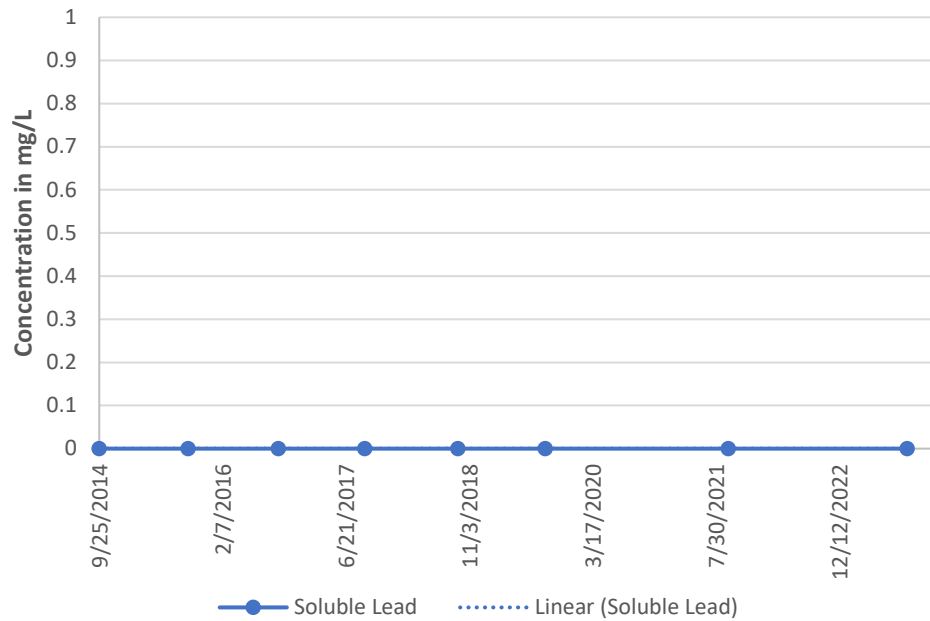


Figure 2-9a
MW-10D: Total SVOCs

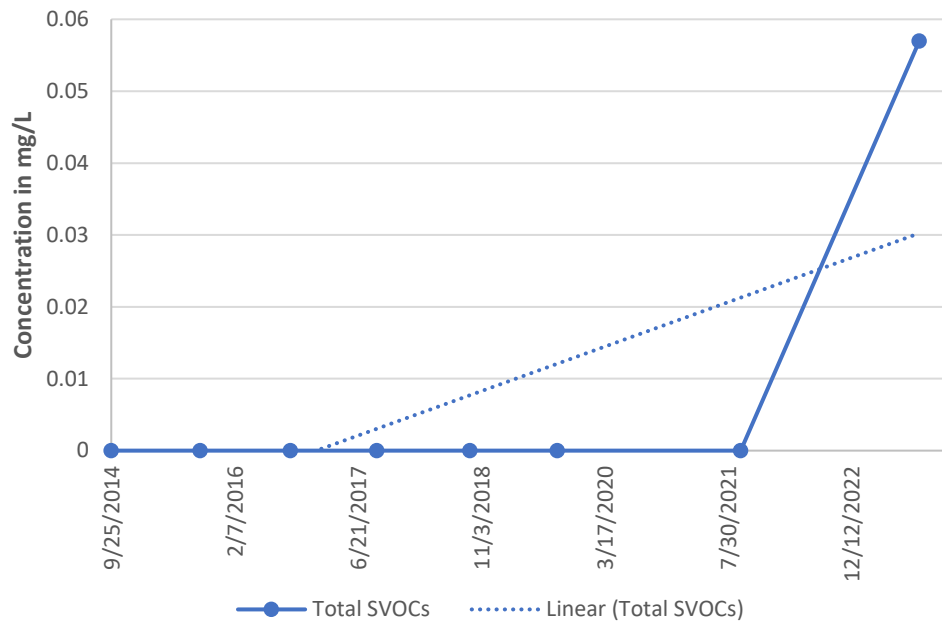


Figure 2-9b
MW-10D: Total VOCs

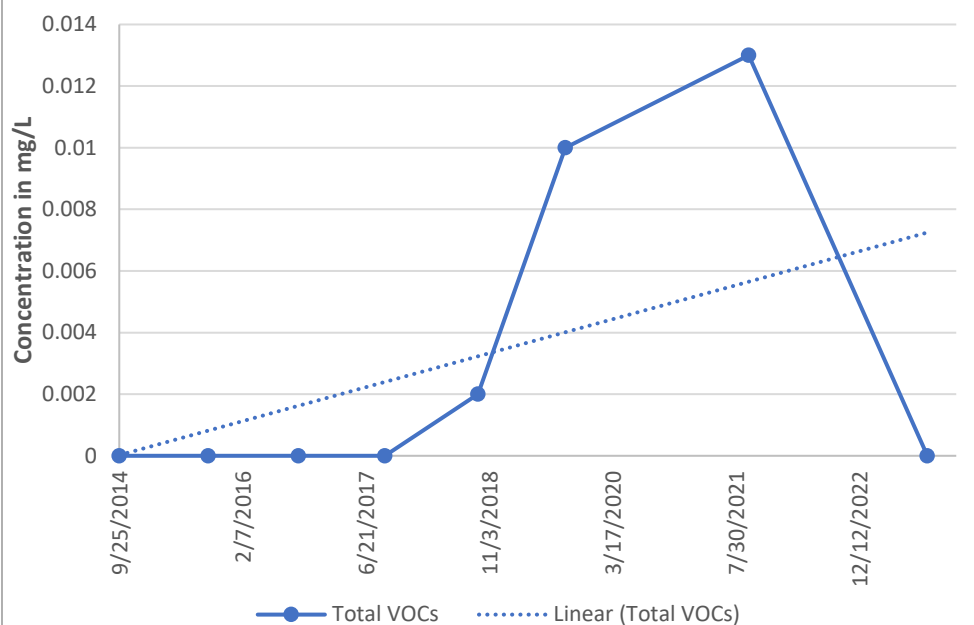


Figure 2-9c
MW-10D: TPH

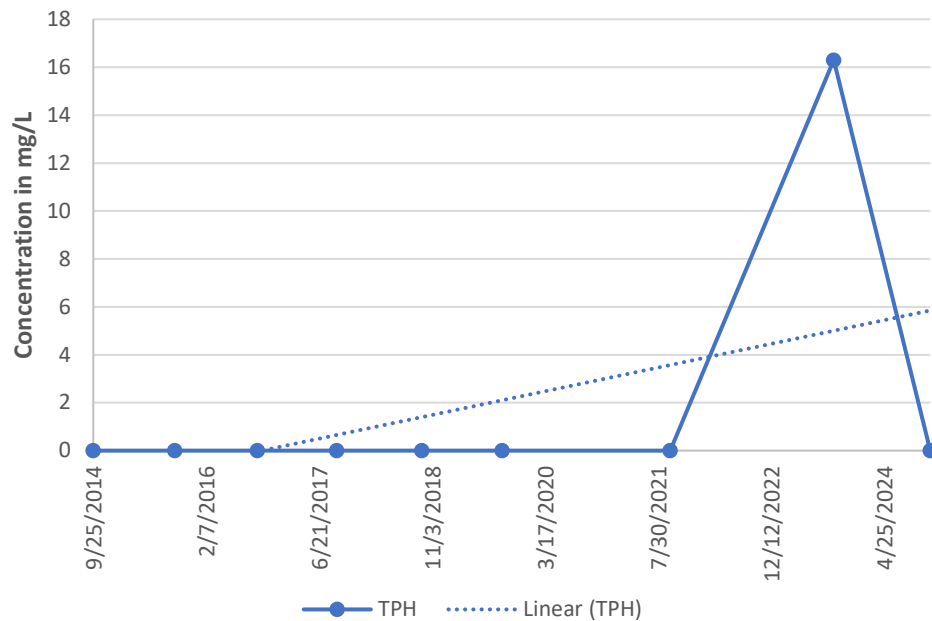


Figure 2-9d
MW-10D: Soluble Arsenic

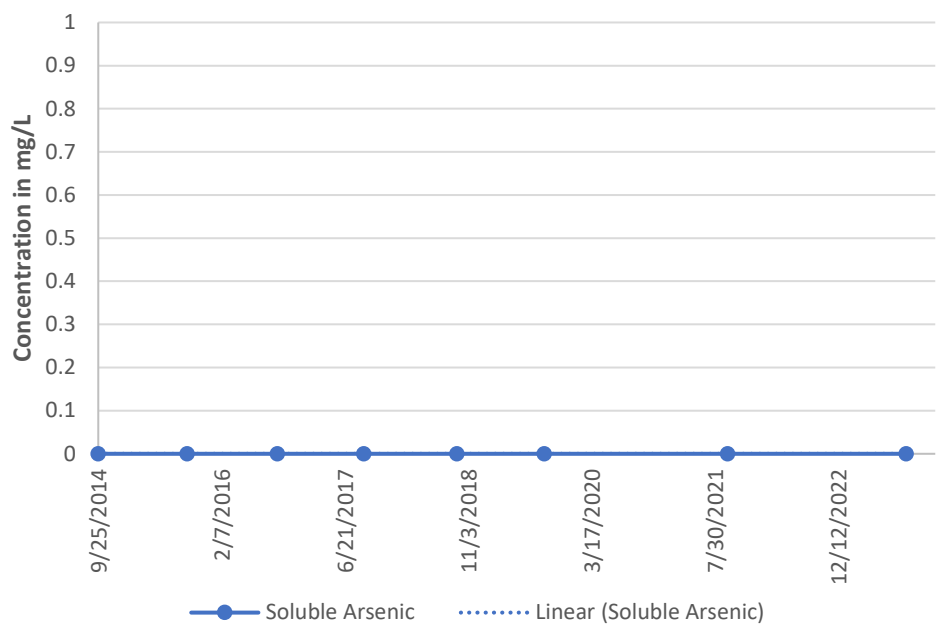
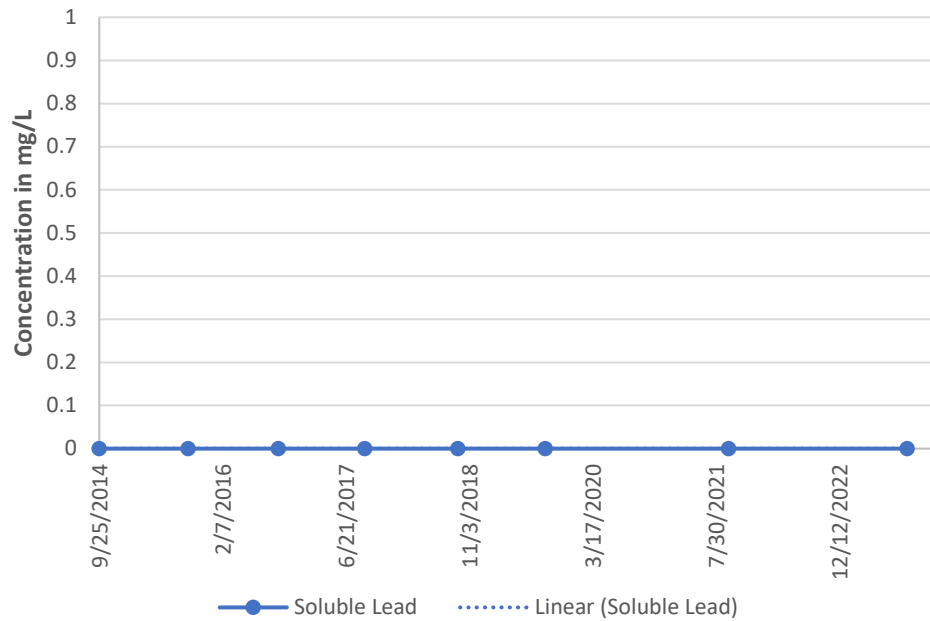


Figure 2-93e
MW-10D: Soluble Lead



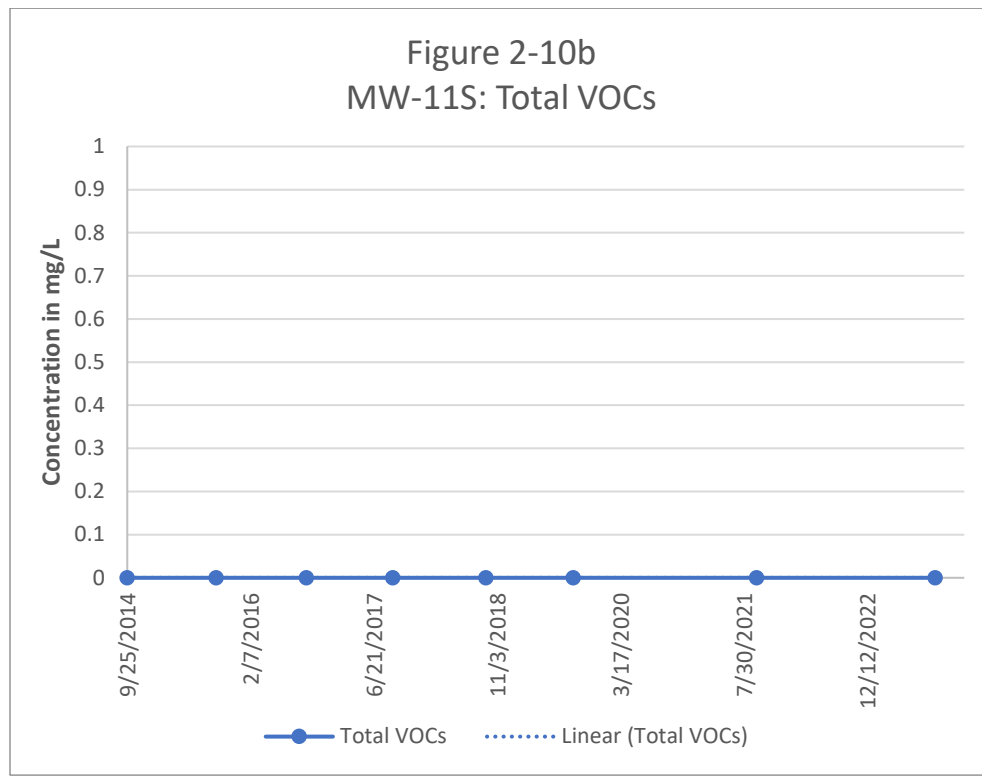
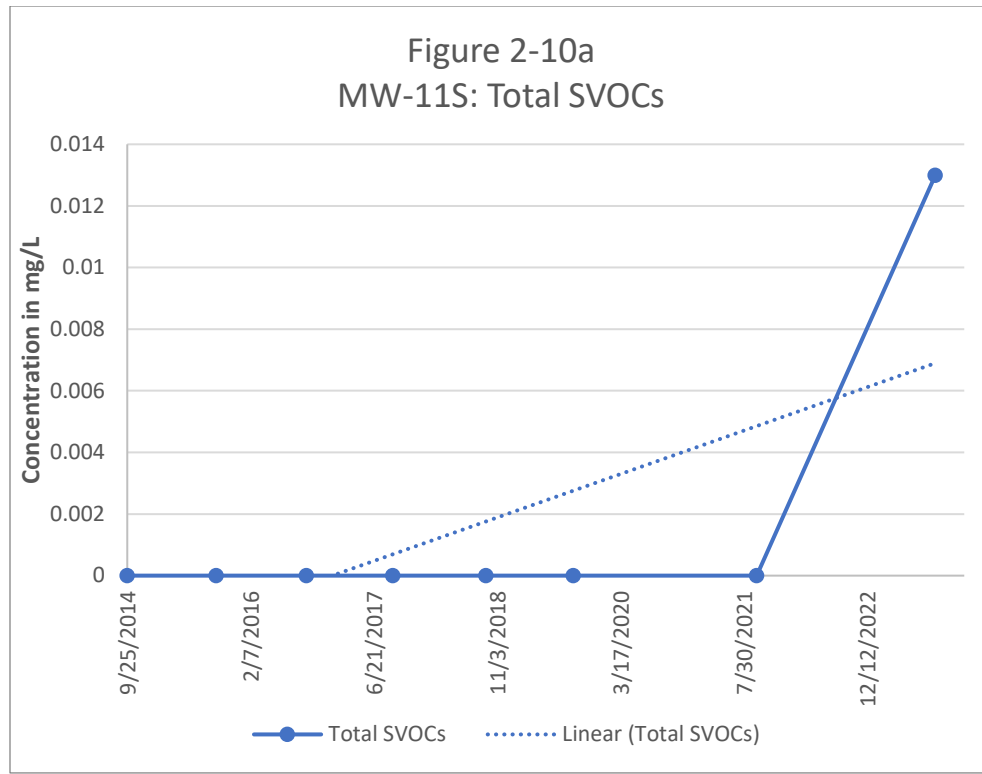


Figure 2-10c
MW-11S: TPH

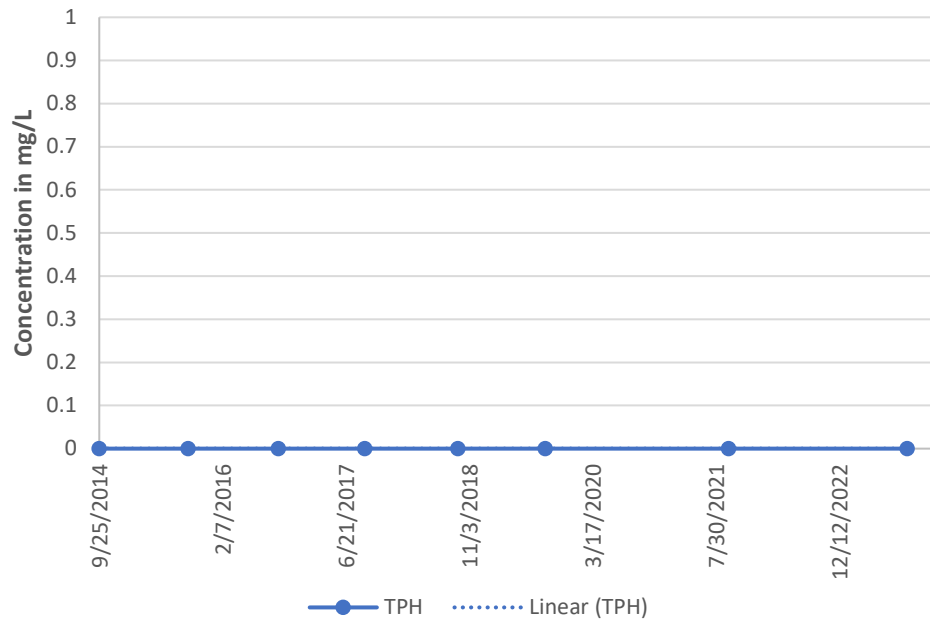


Figure 2-10d
MW-11S: Soluble Arsenic

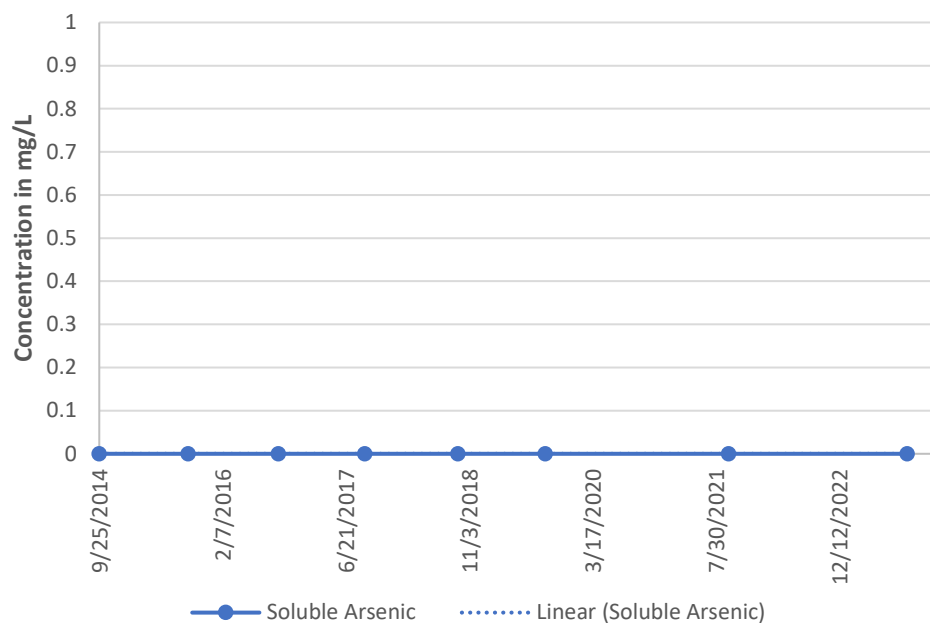


Figure 2-10e
MW-11S: Soluble Lead

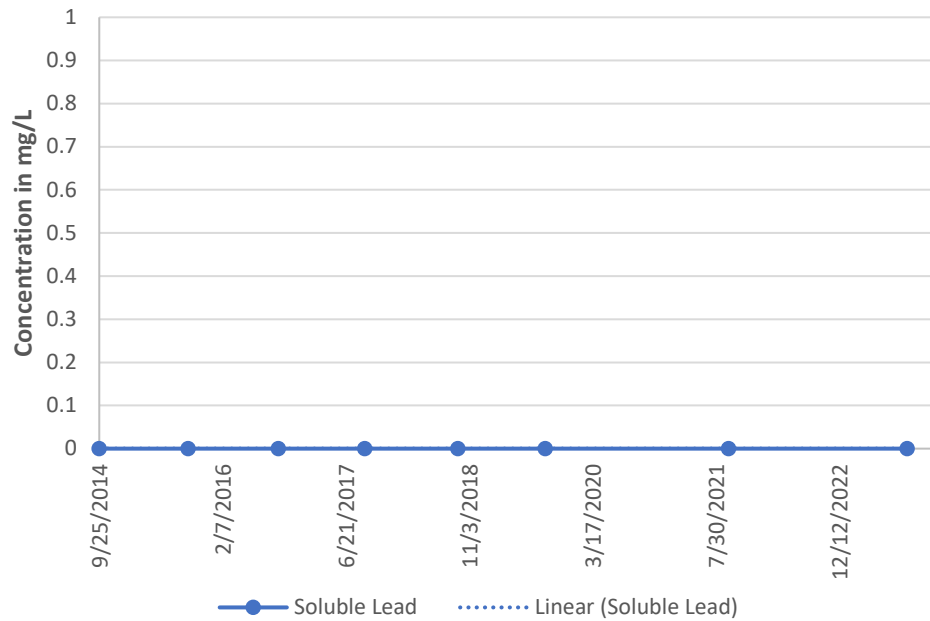


Figure 2-11a
MW-11M: Total SVOCs

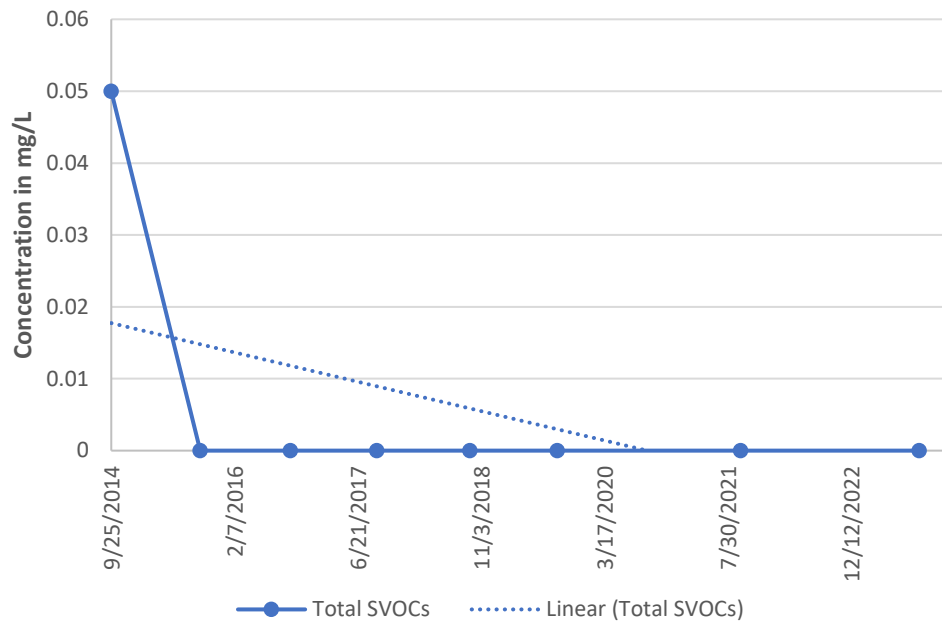


Figure 2-11b
MW-11M: Total VOCs

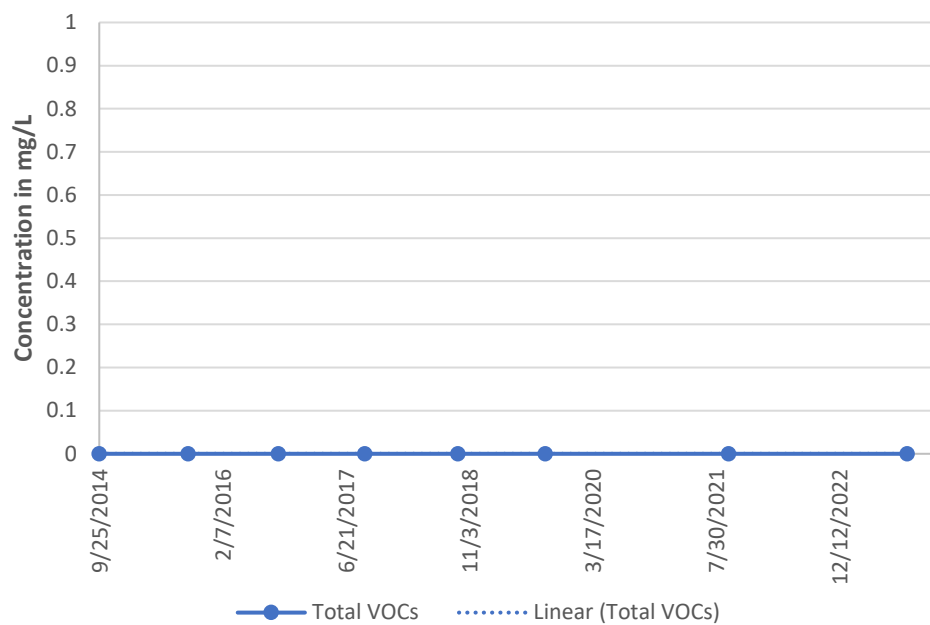


Figure 2-11c
MW-11M: TPH

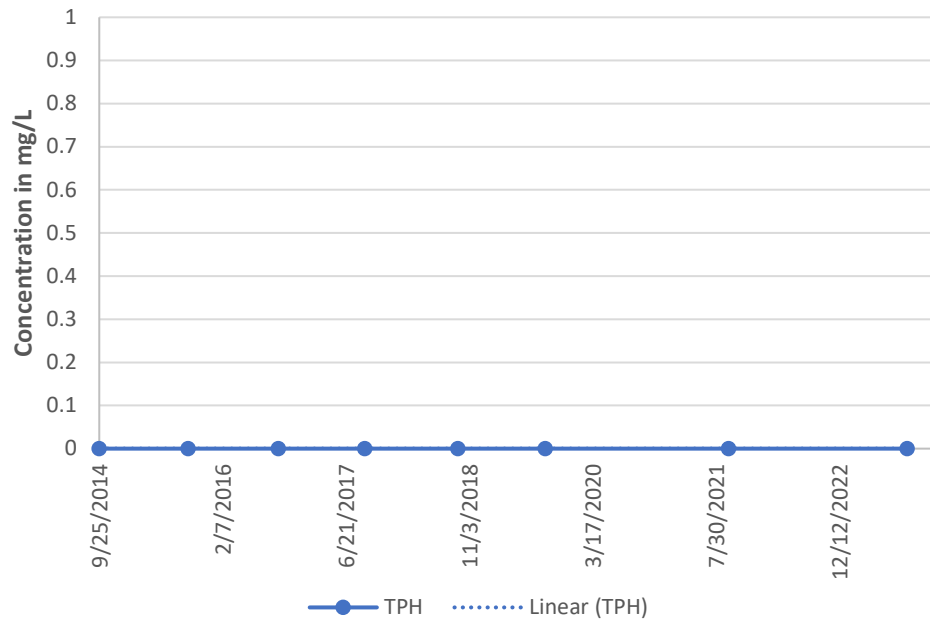


Figure 2-11d
MW-11M: Soluble Arsenic

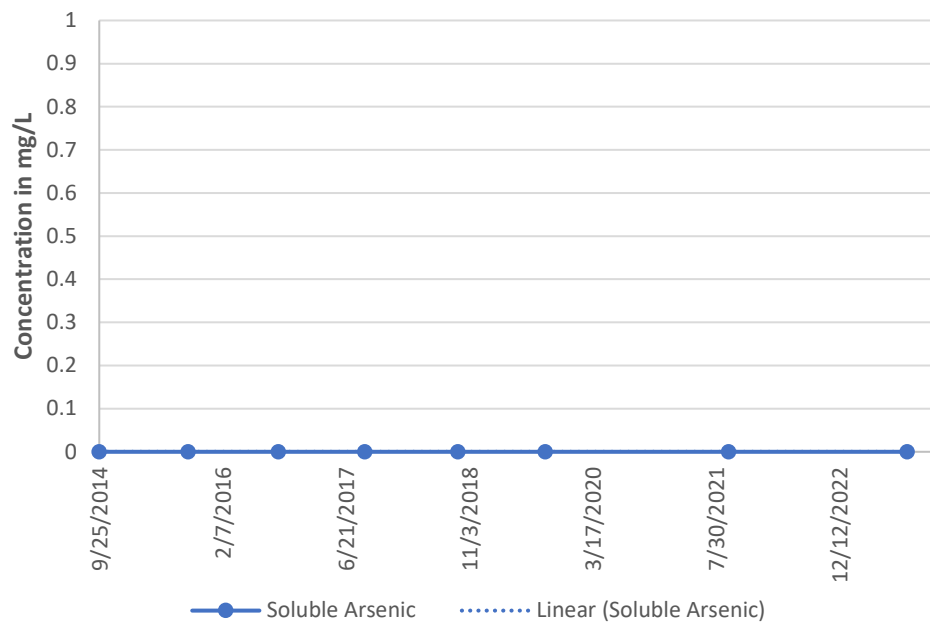


Figure 2-11e
MW-11M: Soluble Lead

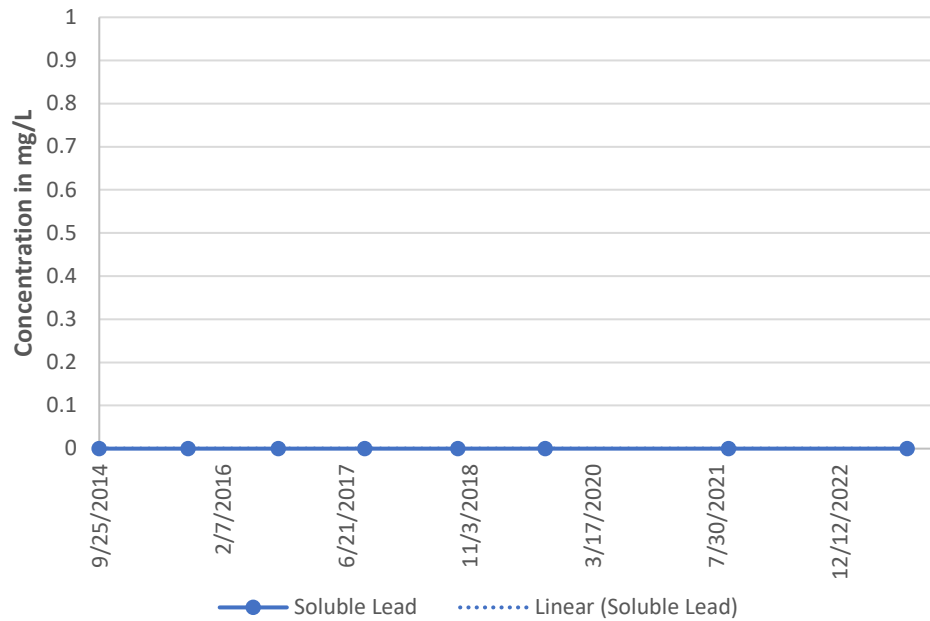


Figure 2-12a
MW-12S: Total SVOCs

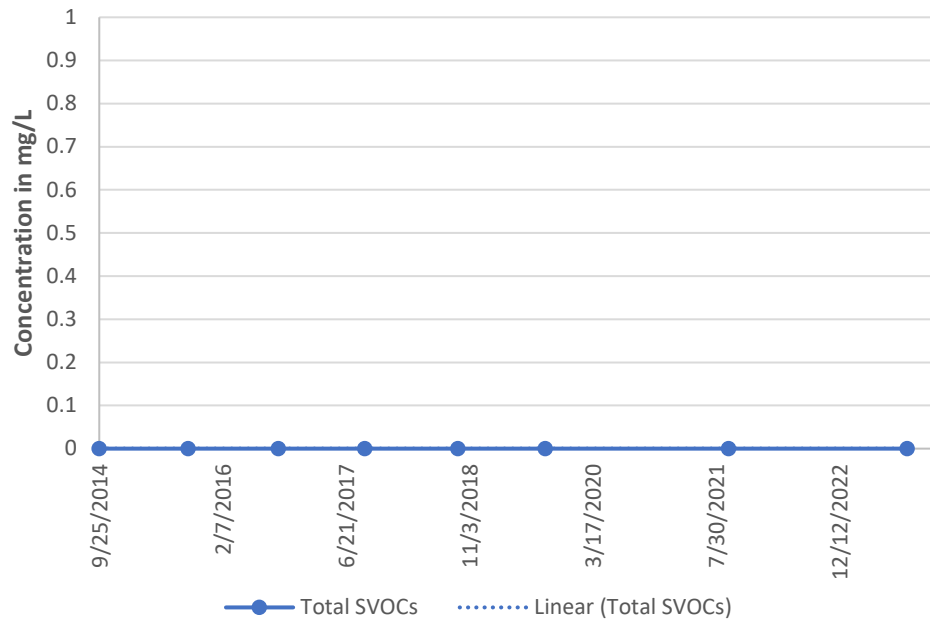


Figure 2-12b
MW-12S: Total VOCs

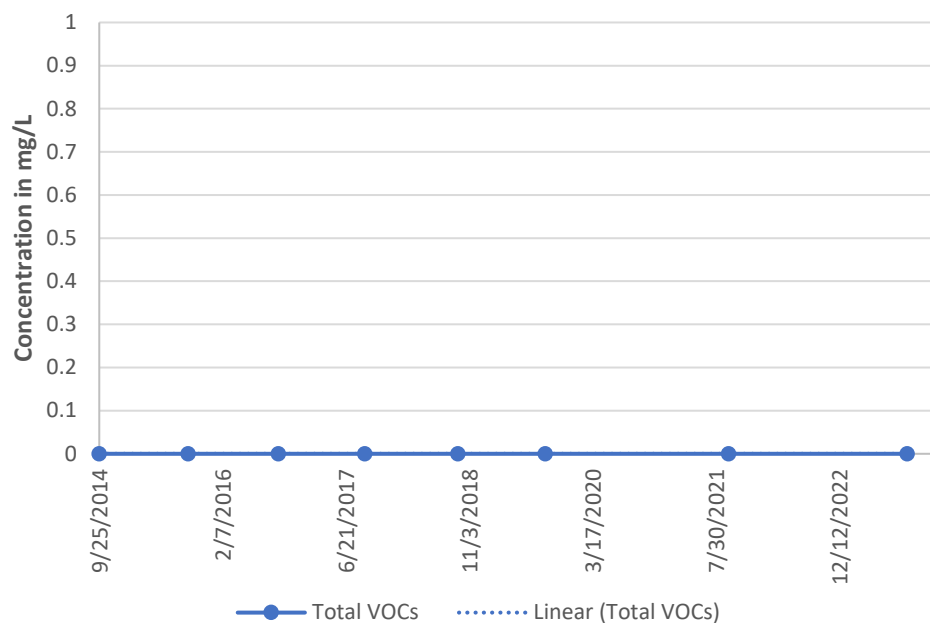


Figure 2-12c
MW-12S: TPH

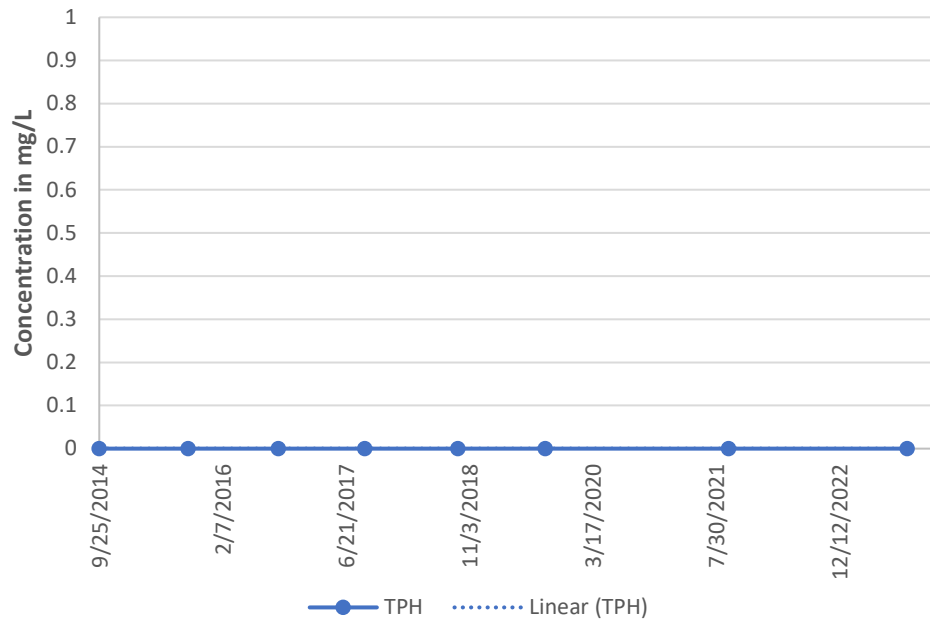


Figure 2-12d
MW-12S: Soluble Arsenic

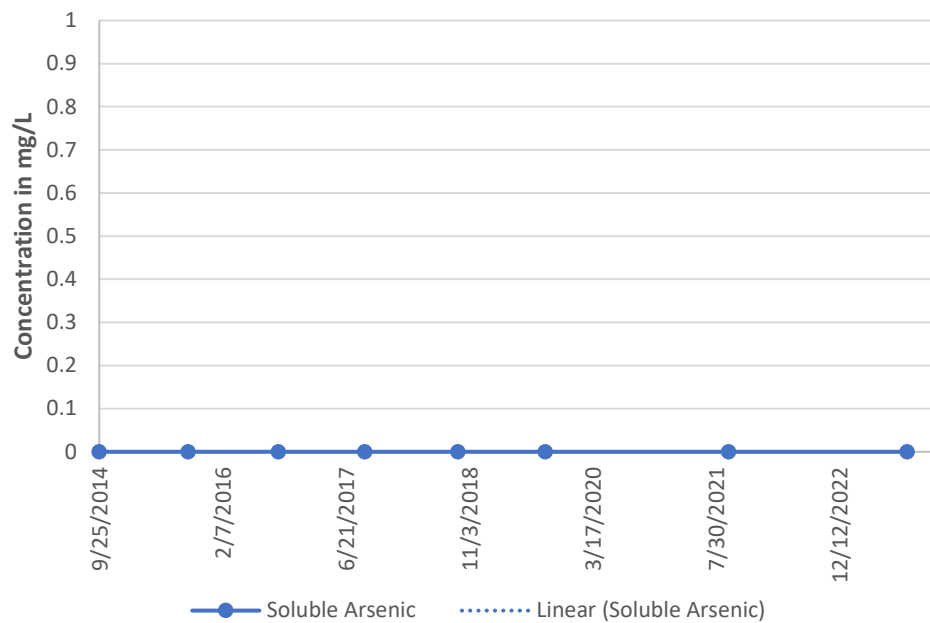


Figure 2-12e
MW-12S: Soluble Lead

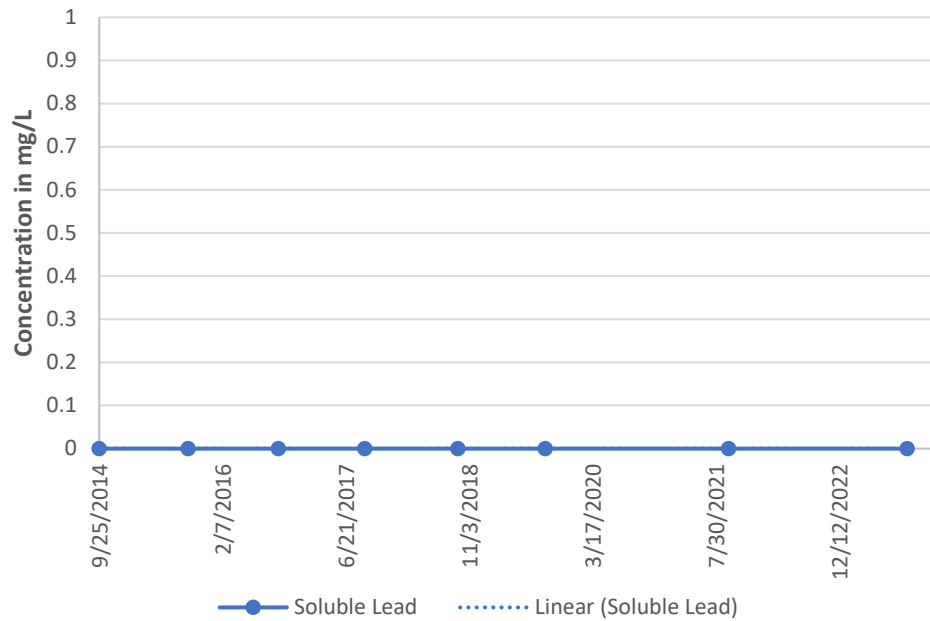


Figure 2-13a
MW-12M: Total SVOCs

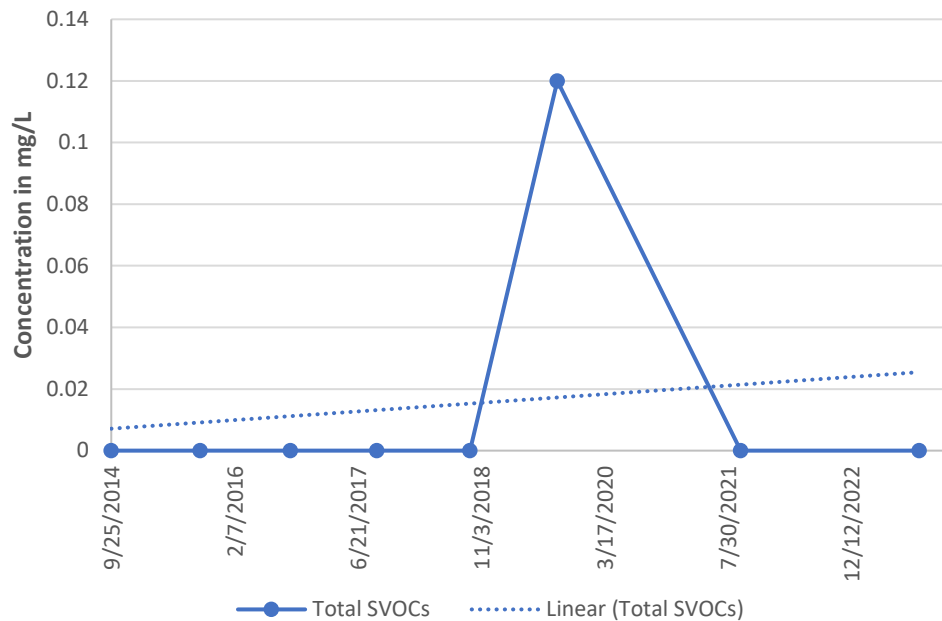


Figure 2-13b
MW-12M: Total VOCs

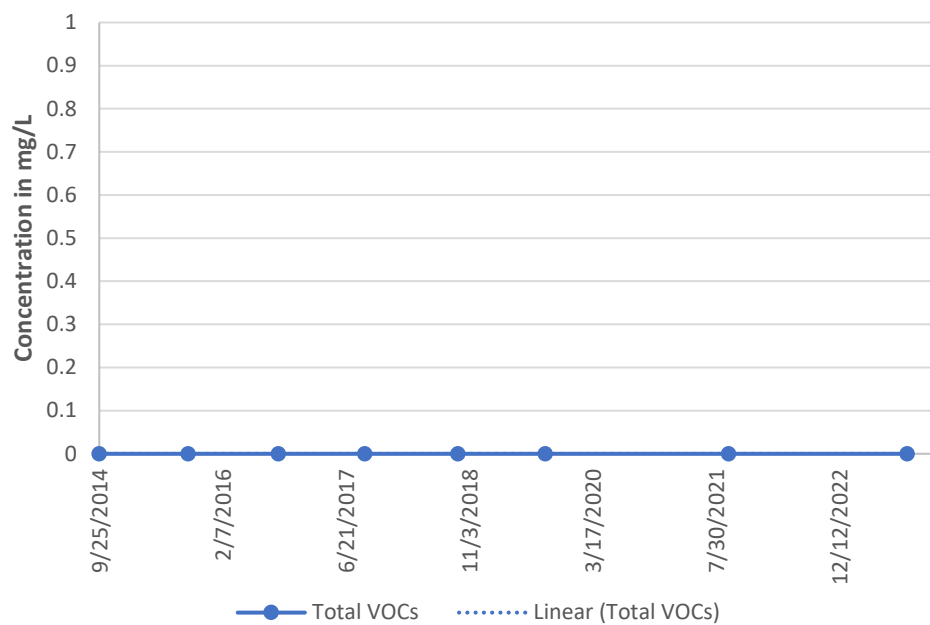


Figure 2-13c
MW-12M: TPH

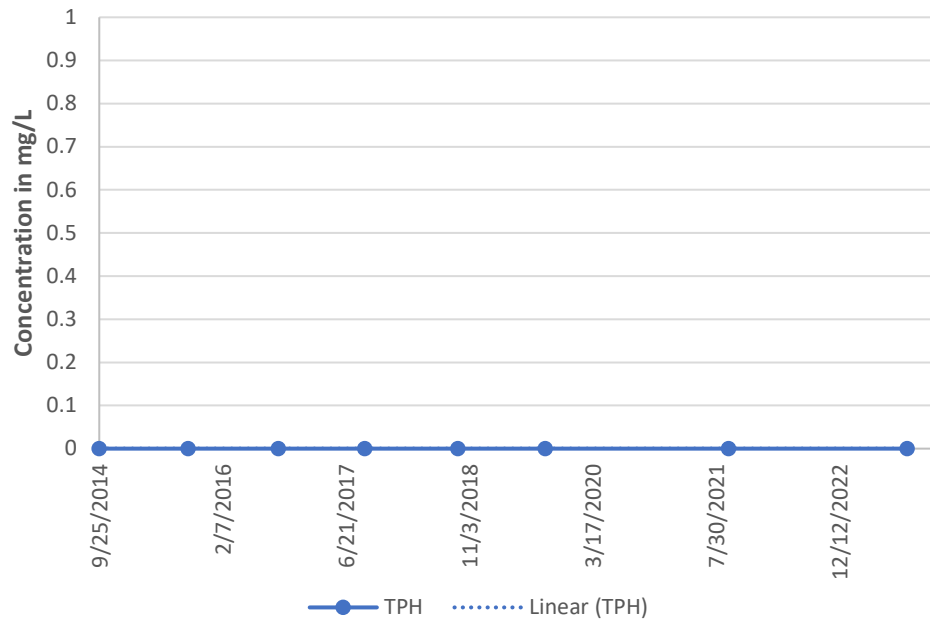


Figure 2-13d
MW-12M: Soluble Arsenic

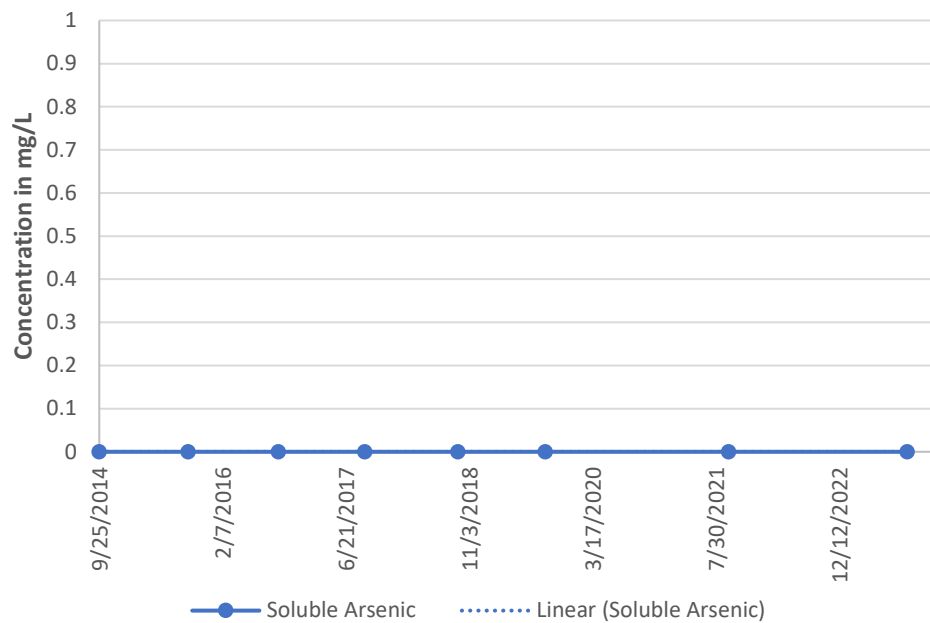


Figure 2-13e
MW-12M: Soluble Lead

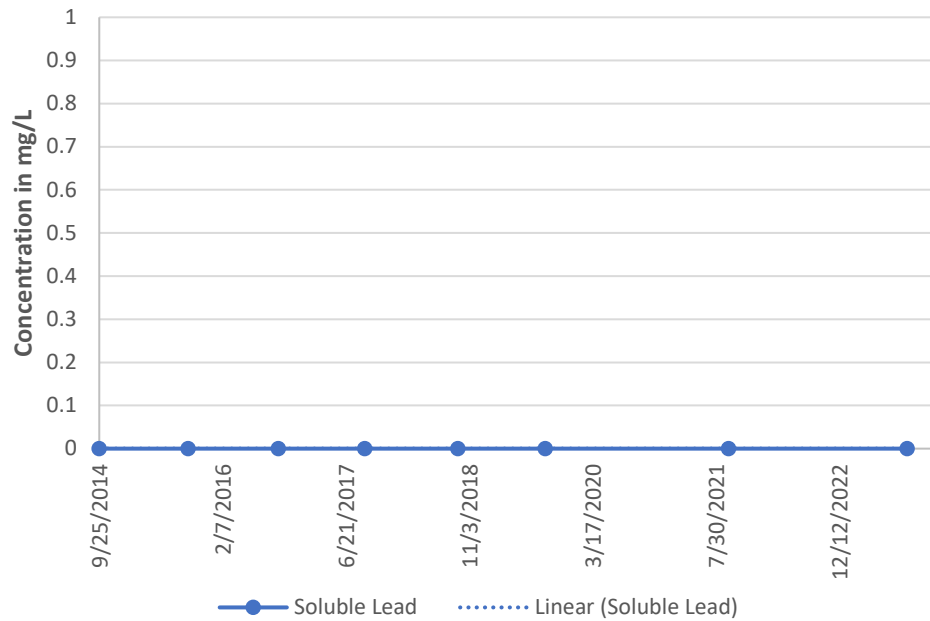


Figure 2-14a
MW-12D: Total SVOCs

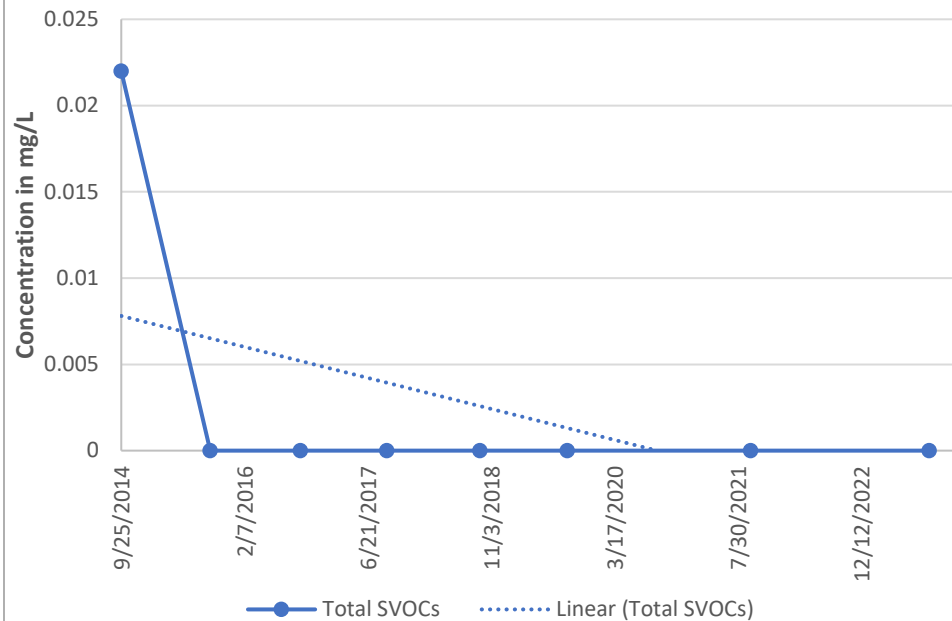


Figure 2-14b
MW-12D: Total VOCs

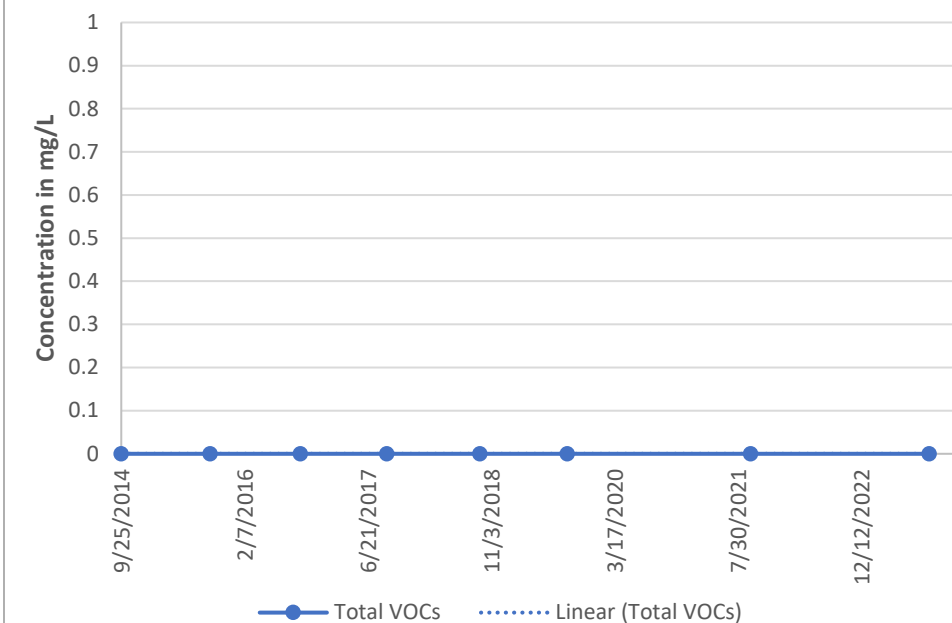


Figure 2-14c
MW-12D: TPH

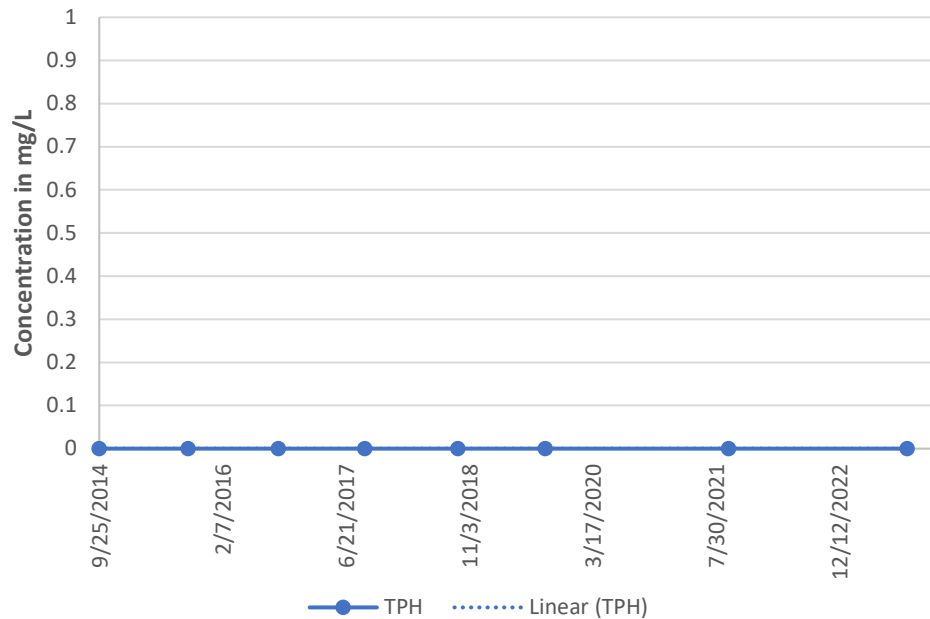


Figure 2-14d
MW-12D: Soluble Arsenic

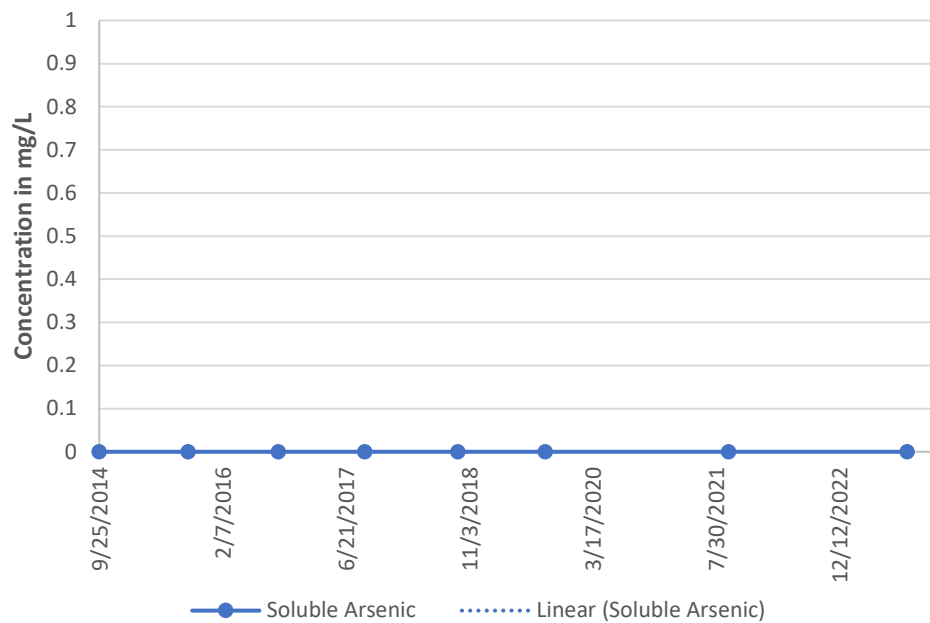


Figure 2-14e
MW-12D: Soluble Lead

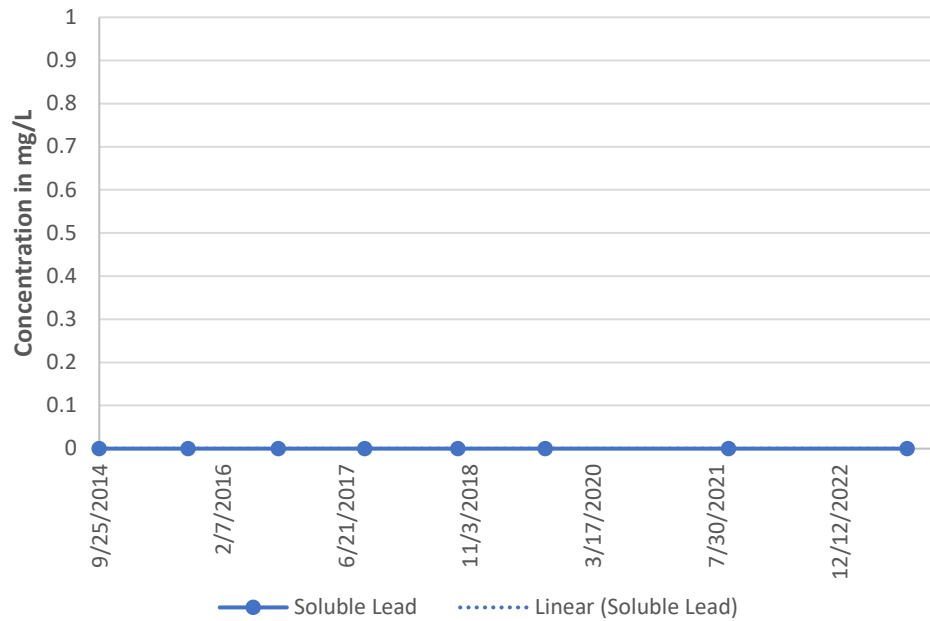


Figure 2-15a
MW-13S: Total SVOCs

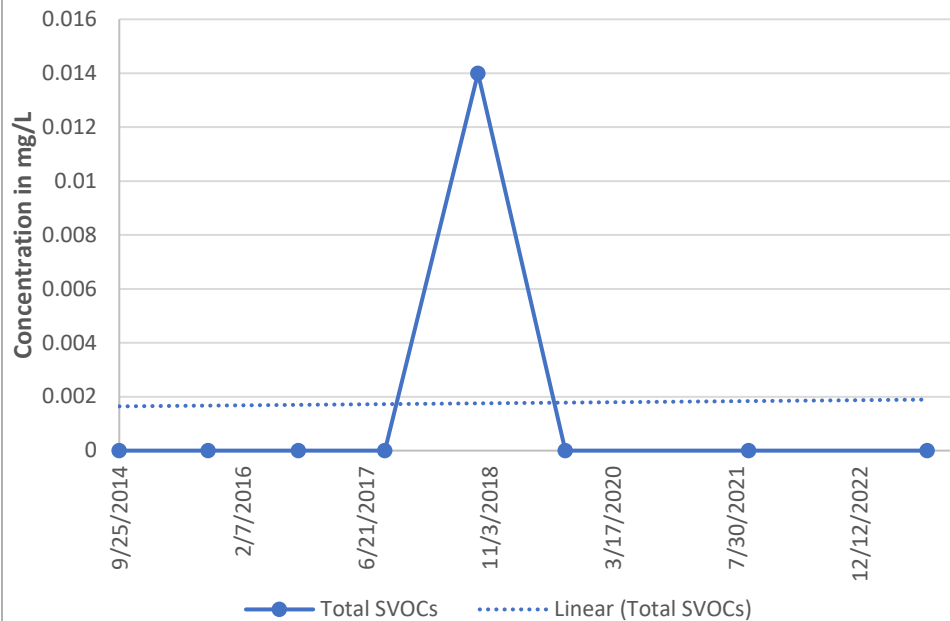


Figure 2-15b
MW-13S: Total VOCs

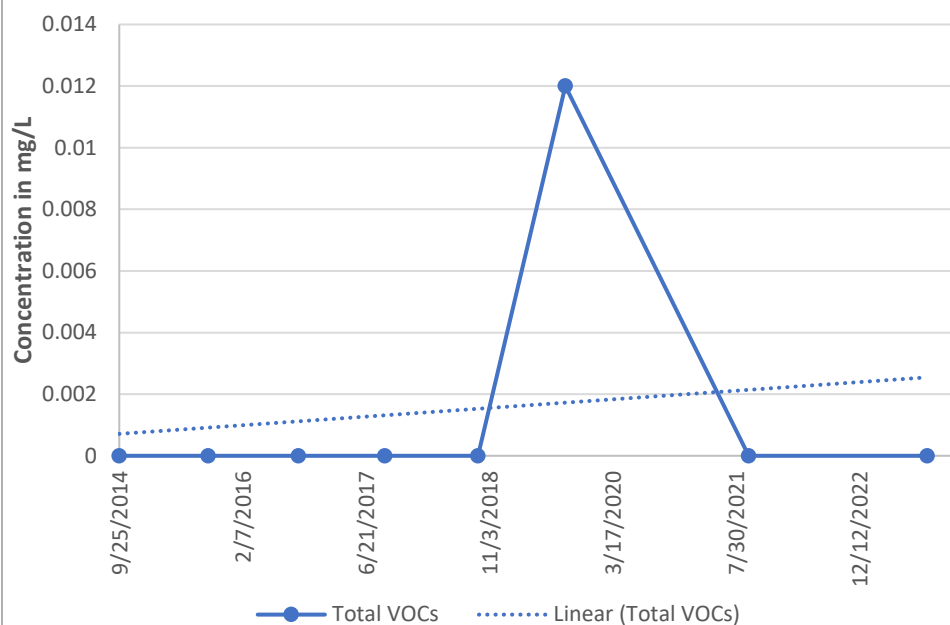


Figure 2-15c
MW-13S: TPH

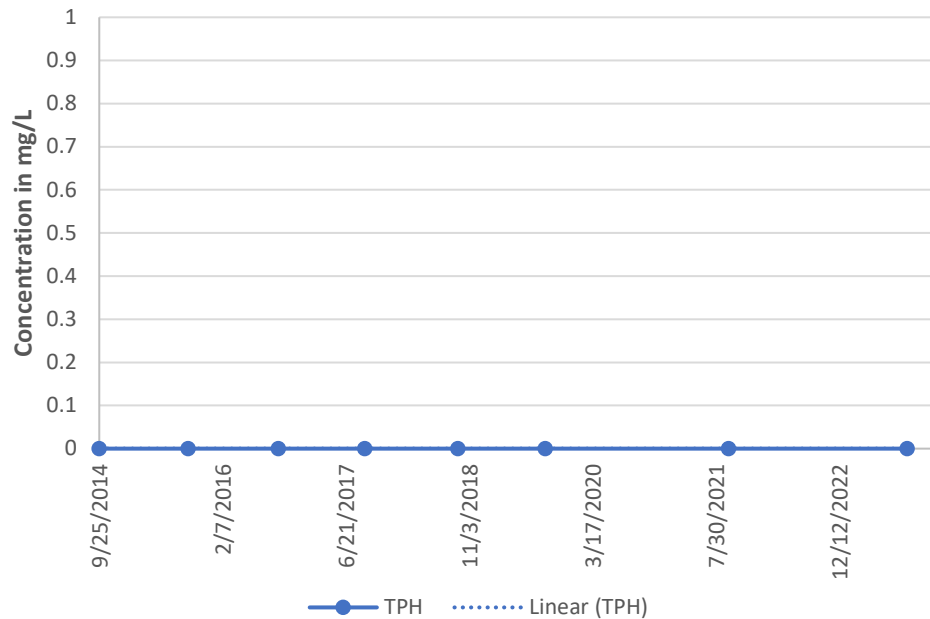


Figure 2-15d
MW-13S: Soluble Arsenic

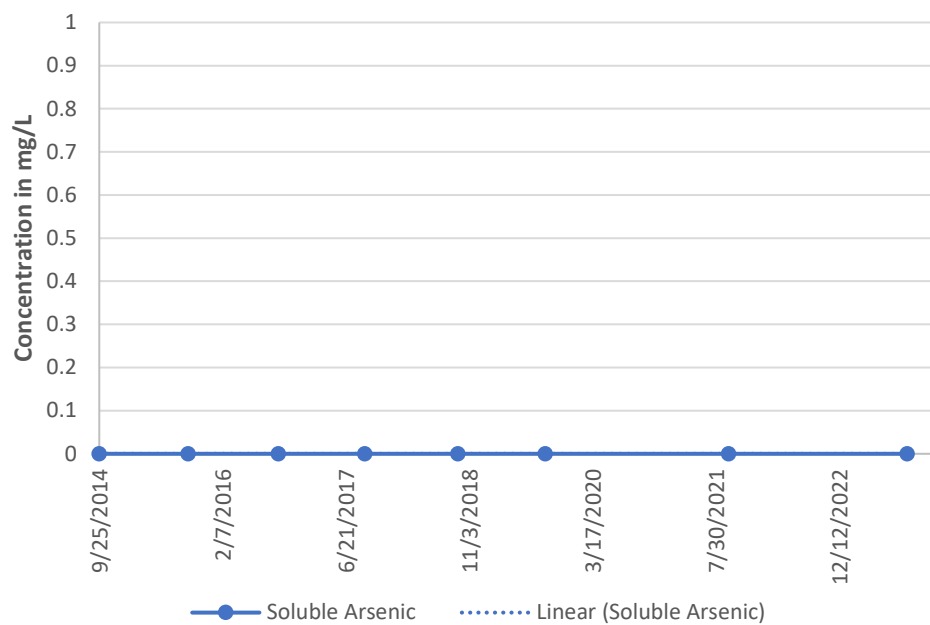


Figure 2-15e
MW-13S: Soluble Lead

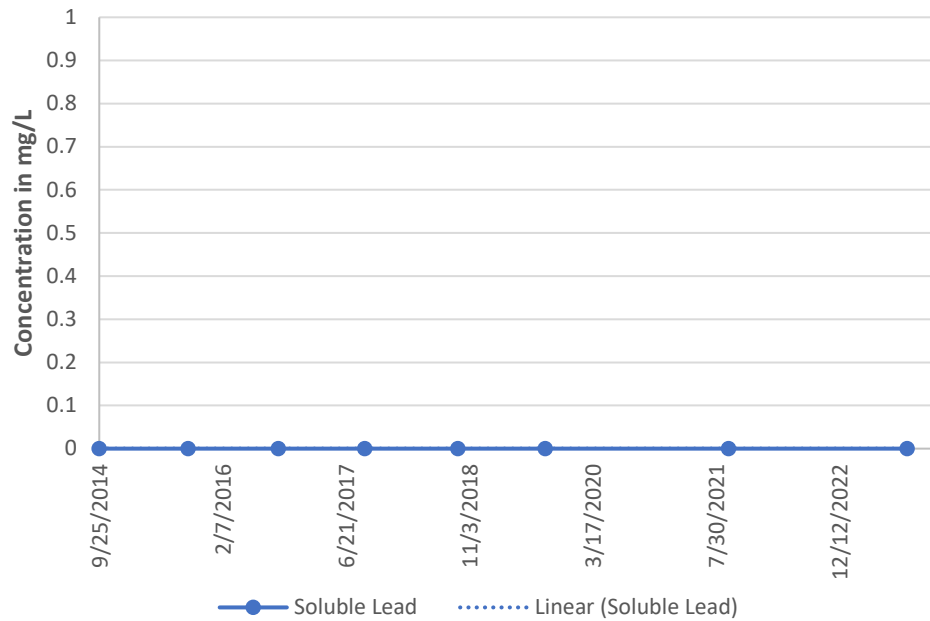


Figure 2-16a
MW-13M: Total SVOCs

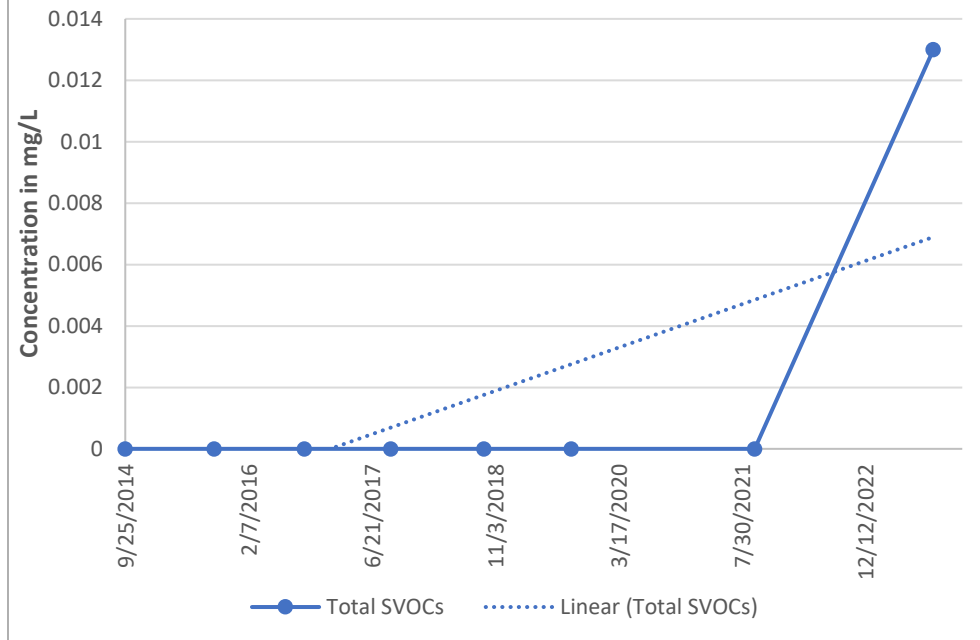


Figure 2-16b
MW-13M: Total VOCs

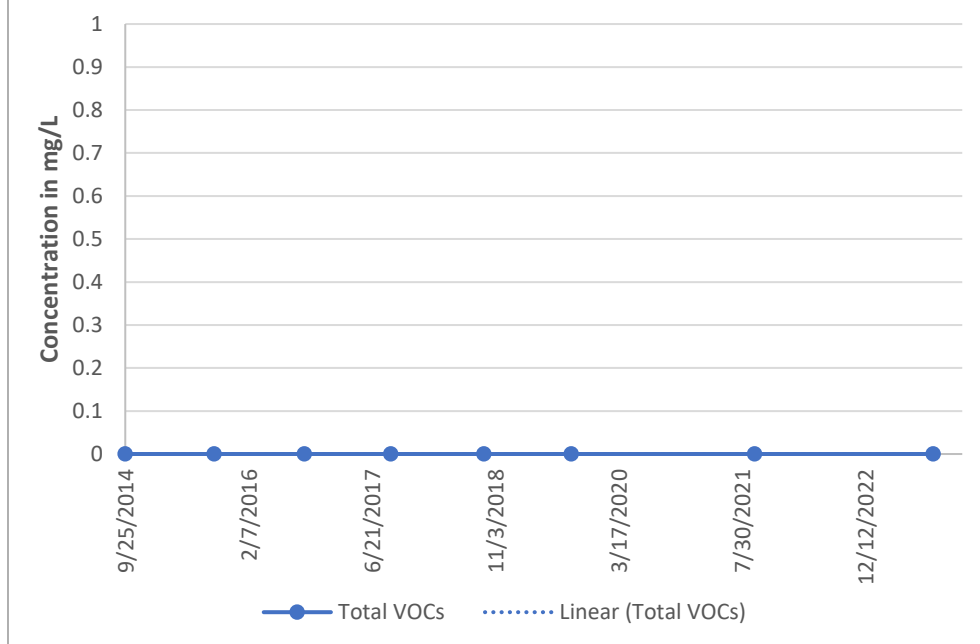


Figure 2-16c
MW-13M: TPH

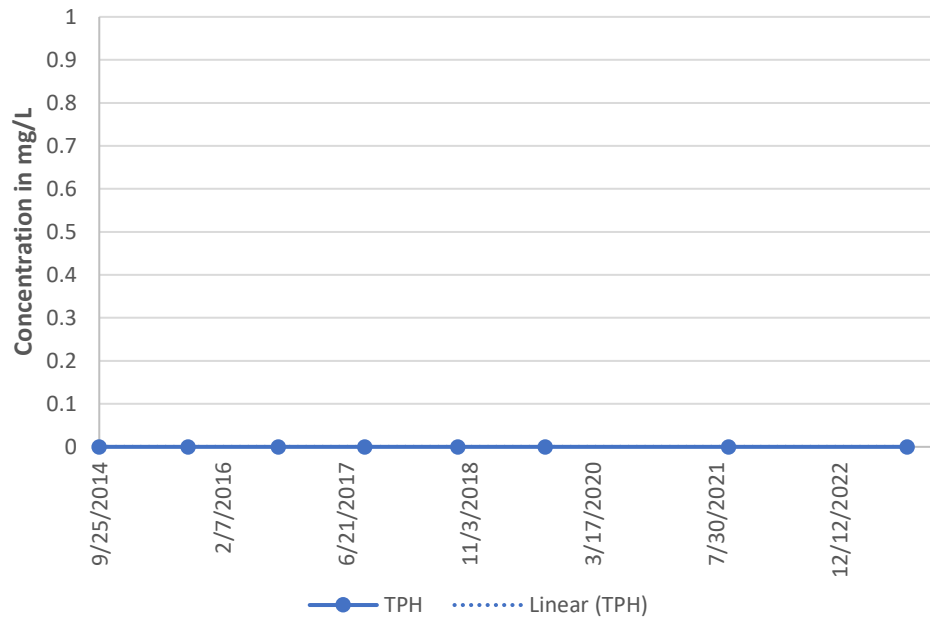


Figure 2-16d
MW-13M: Soluble Arsenic

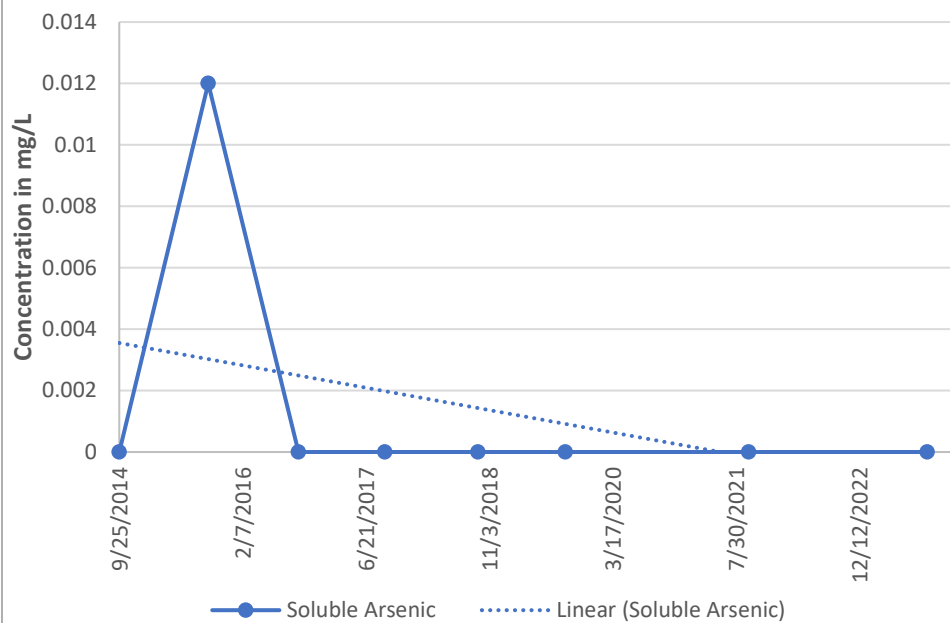


Figure 2-16e
MW-13M: Soluble Lead

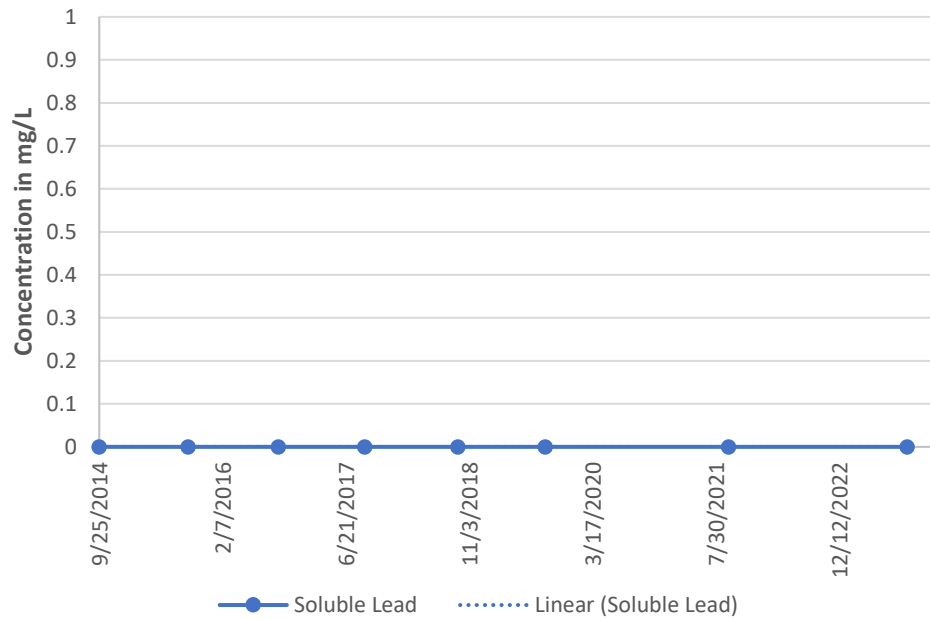


Figure 2-17a
MW-14S: Total SVOCs

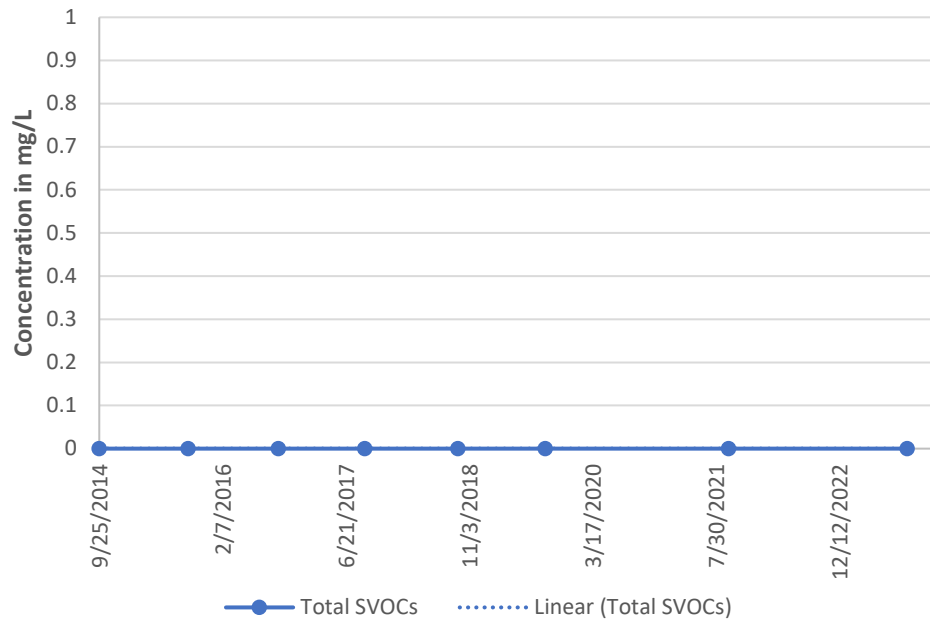


Figure 2-17b
MW-14S: Total VOCs

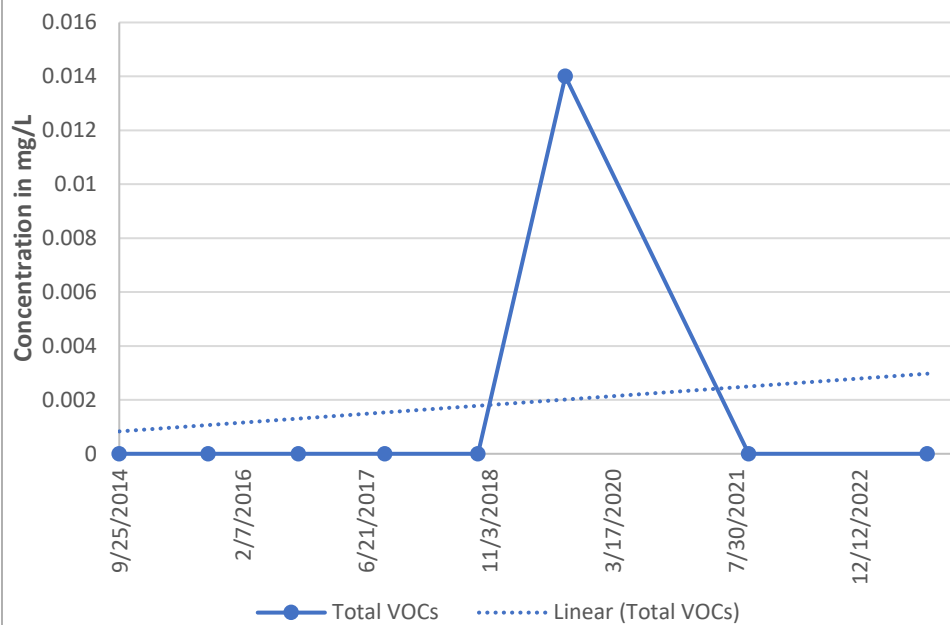


Figure 2-17c
MW-14S: TPH

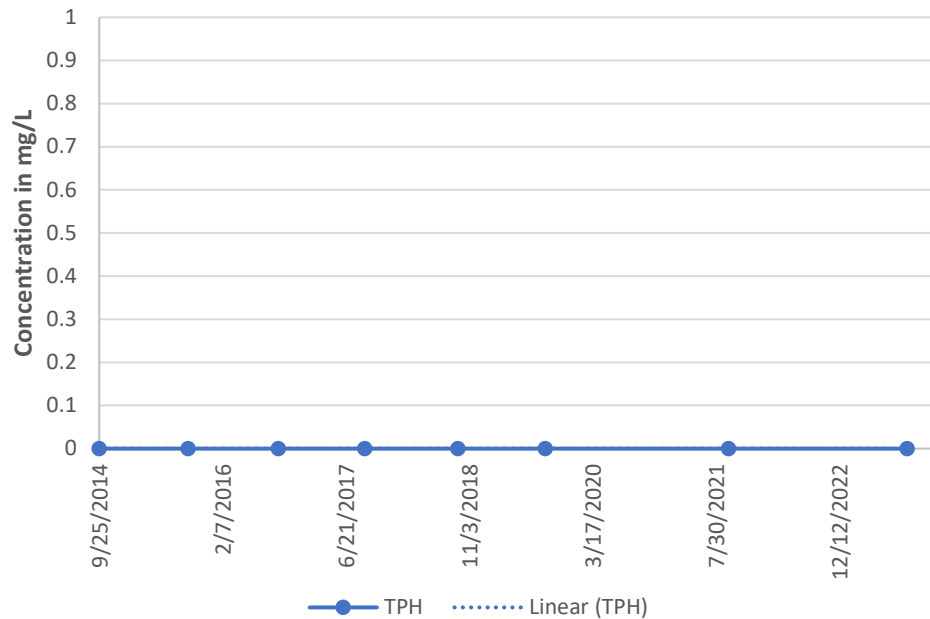


Figure 2-17d
MW-14S: Soluble Arsenic

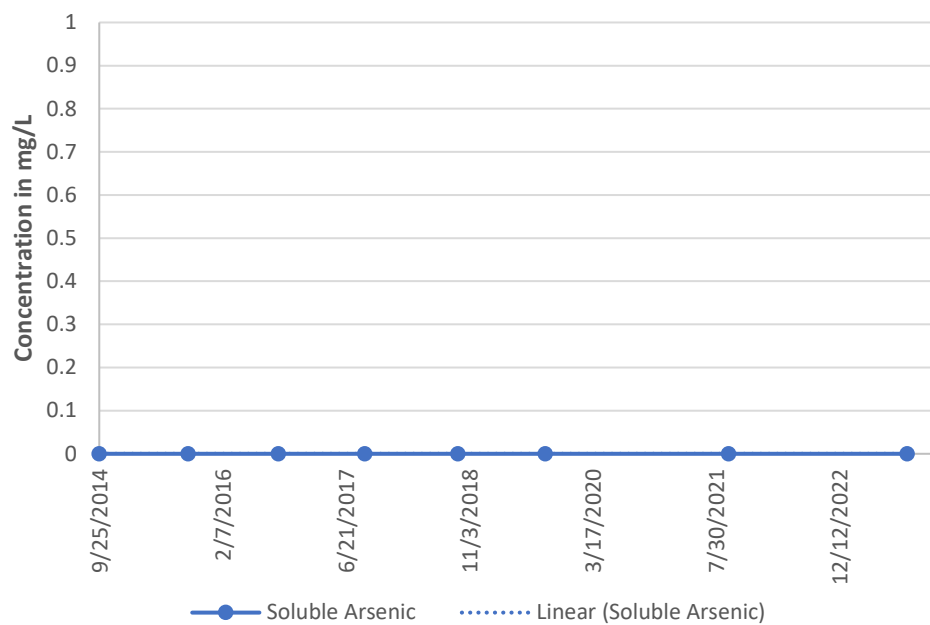
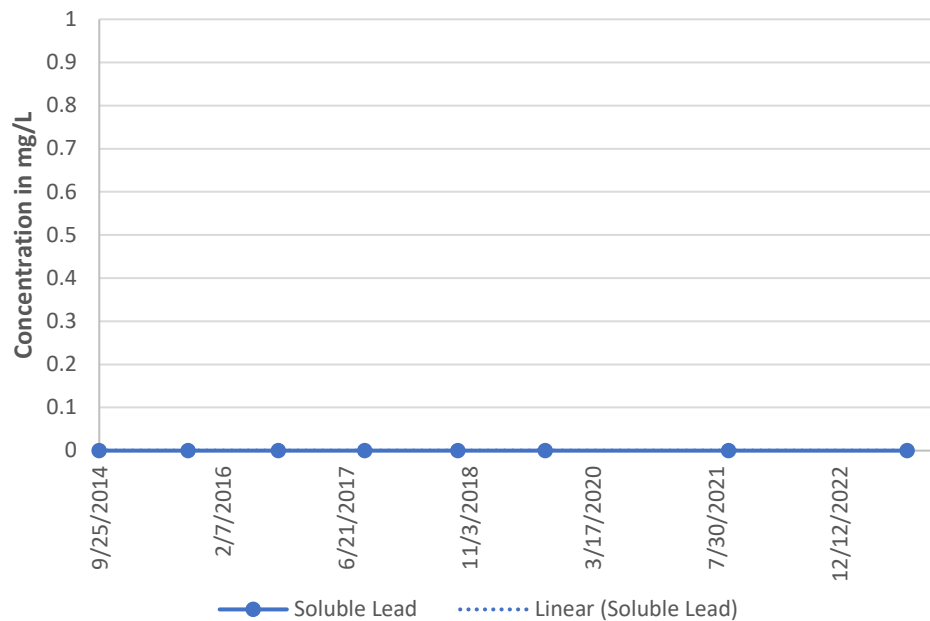


Figure 2-17e
MW-14S: Soluble Lead



TABLES

TABLE 2-1
UNION ROAD
GROUNDWATER MONITORING REPORT
August 20-21, 2024



WELL PURGING SUMMARY

Well Number	Riser Elev. (Feet) ¹	Depth to Product (Feet)	Depth to Water (Feet)	Product Thickness (Feet)	Water Elev. (Feet)	Adjusted Water Elev. (Feet)	Water Height in Well (Feet)	Water Volume in Well (Gallons)	3X	Water Removed from Well (Gallons)	Notes
10S	623.09	NA	10.50	NA	612.59	612.59	12.69	1.55	4.65	5.00	Grey Water
10M	622.50	NA	13.80	NA	608.70	608.70	19.10	3.21	9.63	10.00	
10D	622.02	NA	14.08	NA	607.94	607.94	33.84	5.46	16.37	7.00	purged dry
11S	622.74	NA	15.05	NA	607.69	607.69	10.59	1.70	5.11	5.00	
11M	622.86	NA	20.11	NA	602.75	602.75	24.35	1.88	5.64	6.00	
12S	622.62	NA	20.44	NA	602.18	602.18	6.38	1.04	3.15	4.00	
12M	622.97	NA	20.90	NA	602.07	602.07	23.27	3.90	11.67	11.00	
12D	621.18	NA	18.30	NA	602.88	602.88	45.08	7.20	21.59	22.00	
13S	622.96	NA	12.90	NA	610.06	610.06	10.96	1.78	5.33	5.00	Product thickness could not be determined
13M	621.66	NA	12.91	NA	608.75	608.75	22.95	3.75	11.25	11.00	
14S ²	621.61	NA	11.50	NA	610.11	610.11	8.01	1.24	3.72	4.00	
15	624.67	NA	16.10	NA	608.57	608.57	8.77	1.32	3.96	4.00	Grey Water
16	624.51	NA	15.05	NA	609.46	609.46	9.56	1.59	4.77	5.00	Grey Water
17	624.44	NA	20.10	NA	604.34	604.34	9.24	1.47	4.40	5.00	Grey Water
18	624.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	No water
19	625.08	NA	21.32	NA	603.76	603.76	6.26	1.03	3.08	3.00	Very Thick Product but thickness could not be determined
20	631.98	28.7	32.10	3.40	599.88	602.94	4.28	0.29	0.88	1.00	Very thick product
21	629.25	NA	25.55	NA	603.70	603.70	5.80	0.69	2.08	2.00	Black water
22	629.24	24.0	27.50	3.50	601.74	604.89	6.34	0.90	2.69	3.00	Very thick product

¹ Interior Well Riser Elevations are sourced from the As-Built Report dated January 1998; Elevations were surveyed by Douglas C. Meyers P.L.S., P.C. on March 17, 1997

² MW-14S was reinstalled, developed and resurveyed on August 19, 1997.

³ All Elevations are referenced to Mean Sea Level

⁴ All wells are two 2-inches in diameter

⁵ Well development was performed on 1/16/1997

NA - not available due to well not sampled

Depth to water is used to calculate each well's elevation, not depth to product

TABLE 2-2
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



SHALLOW WELL SVOCs

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)					MRL
			MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Well ID								
Dilution			1.00	1.00	1.00	1.00	1.00	
acenaphthene		20	ND	ND	ND	ND	ND	0.00089
acenaphthylene	NR	NR	ND	ND	ND	ND	ND	0.00089
anthracene		50	ND	ND	ND	ND	ND	0.00089
benzo(a)anthracene		0.002	ND	ND	ND	ND	ND	0.00089
benzo(a)pyrene	>ND		ND	ND	ND	ND	ND	0.00089
benzo(b)fluoranthene		0.002	ND	ND	ND	ND	ND	0.00089
benzo(g,h,i)perylene	NR	NR	ND	ND	ND	ND	ND	0.00089
benzo(k)fluoranthene		0.002	ND	ND	ND	ND	ND	0.00089
benzyl alcohol	NR	NR	ND	ND	ND	ND	ND	0.00089
butly benzyl phthalate		50	ND	ND	ND	ND	ND	0.00089
di-n-butylphthalate	50		ND	ND	ND	ND	ND	0.00089
Caprolactam			ND	0.013	ND	ND	ND	0.00089
carbazole	NR	NR	ND	ND	ND	ND	ND	0.00089
indeno(1,2,3-cd)pyrene		0.002	ND	ND	ND	ND	ND	0.00089
4-chloroaniline	5		ND	ND	ND	ND	ND	0.00089
bis(-2-chloroethoxy)methane	5		ND	ND	ND	ND	ND	0.00089
bis(2-chloroethyl)ether	1		ND	ND	ND	ND	ND	0.00089
2-chloronaphthalene		10	ND	ND	ND	ND	ND	0.00089
2-chlorophenol	1†		ND	ND	ND	ND	ND	0.00089
2,2'-oxybis(1-chloropropane)	5		ND	ND	ND	ND	ND	0.00089
chrysene		0.002	ND	ND	ND	ND	ND	0.00089
dibenzo(a,h)anthracene	NR	NR	ND	ND	ND	ND	ND	0.00089
dibenzofuran	NR	NR	ND	ND	ND	ND	ND	0.00089
1,2-dichlorobenzene	3		ND	ND	ND	ND	ND	0.00089
1,3-dichlorobenzene	3		ND	ND	ND	ND	ND	0.00089
1,4-dichlorobenzene	3		ND	ND	ND	ND	ND	0.00089
3,3'-dichlorobenzidine	5		ND	ND	ND	ND	ND	0.00089
2,4-dichlorophenol	5		ND	ND	ND	ND	ND	0.00089
diethylphthalate		50	ND	ND	ND	ND	ND	0.00089
dimethyl phthalate		50	ND	ND	ND	ND	ND	0.00089
2,4-dimethylphenol		50	ND	ND	ND	ND	ND	0.00089
2,4-dinitrophenol		10	ND	ND	ND	ND	ND	0.045
2,4-dinitrotoluene	5		ND	ND	ND	ND	ND	0.00089
2,6-dinitrotoluene	5		ND	ND	ND	ND	ND	0.00089
bis(2-ethylhexyl)phthalate	5		ND	ND	ND	ND	ND	0.00089
fluoranthene		50	ND	ND	ND	ND	ND	0.00089
fluorene		50	ND	ND	ND	ND	ND	0.00089
hexachlorobenzene	0.04		ND	ND	ND	ND	ND	0.00089
hexachlorobutadiene	0.5		ND	ND	ND	ND	ND	0.00089
hexachlorocyclopentadiene	5		ND	ND	ND	ND	ND	0.00089
hexachloroethane	5		ND	ND	ND	ND	ND	0.00089
isophorone		50	ND	ND	ND	ND	ND	0.00089
2-methylnaphthalene	NR	NR	ND	ND	ND	ND	ND	0.00089

TABLE 2-2
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



SHALLOW WELL SVOCs

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)					MRL
			MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
			1.00	1.00	1.00	1.00	1.00	
2-methylphenol	1†		ND	ND	ND	ND	ND	0.00089
4,6-dinitro-2-methylphenol	1†		ND	ND	ND	ND	ND	0.045
4-chloro-3-methylphenol	1†		ND	ND	ND	ND	ND	0.00089
3+4-methylphenol	1†		ND	ND	ND	ND	ND	0.00089
naphthalene		10	ND	ND	ND	ND	ND	0.00089
2-nitroaniline	5		ND	ND	ND	ND	ND	0.00089
3-nitroaniline	5		ND	ND	ND	ND	ND	0.00089
4-nitroaniline	5		ND	ND	ND	ND	ND	0.00089
nitrobenzene	0.4		ND	ND	ND	ND	ND	0.00089
2-nitrophenol	1†		ND	ND	ND	ND	ND	0.00089
4-nitrophenol	1†		ND	ND	ND	ND	ND	0.045
n-nitrosodimethylamine	NR	NR	ND	ND	ND	ND	ND	0.00089
n-nitrosodiphenylamine		50	ND	ND	ND	ND	ND	0.00089
di-n-octyl phthalate		50	ND	ND	ND	ND	ND	0.00089
pentachlorophenol	1†		ND	ND	ND	ND	ND	0.045
phenanthrene		50	ND	ND	ND	ND	ND	0.00089
phenol	1†		ND	ND	ND	ND	ND	0.00089
4-bromophenyl-phenylether	NR	NR	ND	ND	ND	ND	ND	0.00089
4-chlorophenyl-phenylether	NR	NR	ND	ND	ND	ND	ND	0.00089
n-nitroso-di-n-propylamine	NR	NR	ND	ND	ND	ND	ND	0.00089
pyrene		50	ND	ND	ND	ND	ND	0.00089
1,2,4-trichlorobenzene	5		ND	ND	ND	ND	ND	0.00089
2,4,5-trichlorophenol	1†		ND	ND	ND	ND	ND	0.00089
2,4,6-trichlorophenol	1†		ND	ND	ND	ND	ND	0.00089
TOTALS			ND	0.013	ND	ND	ND	

Average Outside Landfill (MW 10S - 14S)	ND
Average Inside Landfill (Table 3-1)	.109

ND - Not Detected, above the laboratory detection limit

† - Applies to the sum total of these substances

TABLE 2-3
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



SHALLOW WELL VOCs, TPH, Metals

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)					MRL
			MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Well ID								
Dilution			1.00	1.00	1.00	1.00	1.00	
acetone		50	ND	ND	ND	ND	ND	0.01
benzene	1		ND	ND	ND	ND	ND	0.005
bromodichloromethane		50	ND	ND	ND	ND	ND	0.005
bromoform		50	ND	ND	ND	ND	ND	0.005
bromomethane	5		ND	ND	ND	ND	ND	0.005
2-butanone (MEK)		50	ND	ND	ND	ND	ND	0.01
carbon disulfide	NR	NR	ND	ND	ND	ND	ND	0.01
carbon tetrachloride	5		ND	ND	ND	ND	ND	0.005
chlorobenzene	5		ND	ND	ND	ND	ND	0.005
chloroethane	5		ND	ND	ND	ND	ND	0.005
chloroform	7		ND	ND	ND	ND	ND	0.005
chloromethane	5		ND	ND	ND	ND	ND	0.005
dibromochloromethane		50	ND	ND	ND	ND	ND	0.005
1,1-dichloroethane	5		ND	ND	ND	ND	ND	0.005
1,2-dichloroethane	0.6		ND	ND	ND	ND	ND	0.005
1,1-dichloroethene	5		ND	ND	ND	ND	ND	0.005
cis-1,2-dichloroethene	5		ND	ND	ND	ND	ND	0.005
trans-1,2-dichloroethene	5		ND	ND	ND	ND	ND	0.005
1,2-dichloropropane	1		ND	ND	ND	ND	ND	0.005
cis-1,3-dichloropropene	0.4*		ND	ND	ND	ND	ND	0.005
trans-1,3-dichloropropene	0.4*		ND	ND	ND	ND	ND	0.005
ethylbenzene	5		ND	ND	ND	ND	ND	0.005
2-hexanone		50	ND	ND	ND	ND	ND	0.01
methylene chloride	5		ND	ND	ND	ND	ND	0.005
4-methyl-2-pentanone (MIBK)	NR	NR	ND	ND	ND	ND	ND	0.01
styrene	5		ND	ND	ND	ND	ND	0.005
1,1,2,2-tetrachloroethane	5		ND	ND	ND	ND	ND	0.005
tetrachloroethene	5		ND	ND	ND	ND	ND	0.005
toluene	5		ND	ND	ND	ND	ND	0.005
1,1,1-trichloroethane	5		ND	ND	ND	ND	ND	0.005
1,1,2-trichloroethane	1		ND	ND	ND	ND	ND	0.005
trichloroethene	5		ND	ND	ND	ND	ND	0.005
vinyl chloride	2		ND	ND	ND	ND	ND	0.005
m+p xylene	5 (each)		ND	ND	ND	ND	ND	0.005
o-xylene	5		ND	ND	ND	ND	ND	0.005
TOTAL VOC'S			ND	ND	ND	ND	ND	

Average Outside Landfill	Average Inside Landfill
(MW 10S - 14S)	(Table 3-1)
0	0.01

Total Oil & Grease (HEM)			ND	ND	ND	ND	ND	0.0048
SOLUBLE ARSENIC	25		ND	ND	ND	ND	ND	0.01
SOLUBLE LEAD	25		ND	ND	ND	ND	ND	0.05

0.0	2.84
0.0	0.024
0.0	5.313

ND - Not Detected, above the laboratory detection limit

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

TABLE 2-4
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



MEDIUM WELL SVOCs

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)				MRL
			MW-10M	MW-11M	MW-12M	MW-13M	
			1.00	1.00	1.00	1.00	
Well ID							
Dilution							
acenaphthene		20	ND	ND	ND	ND	0.0089
acenaphthylene	NR	NR	ND	ND	ND	ND	0.0089
anthracene		50	ND	ND	ND	ND	0.0089
benzo(a)anthracene		0.002	ND	ND	ND	ND	0.0089
benzo(a)pyrene	>ND		ND	ND	ND	ND	0.0089
benzo(b)fluoranthene		0.002	ND	ND	ND	ND	0.0089
benzo(g,h,i)perylene	NR	NR	ND	ND	ND	ND	0.0089
benzo(k)fluoranthene		0.002	ND	ND	ND	ND	0.0089
benzyl alcohol	NR	NR	ND	ND	ND	ND	0.0089
butly benzyl phthalate		50	ND	ND	ND	ND	0.0089
di-n-butylphthalate	50		ND	ND	ND	ND	0.0089
Caprolactam			ND	ND	ND	0.013	0.0089
carbazole	NR	NR	ND	ND	ND	ND	0.0089
indeno(1,2,3-cd)pyrene		0.002	ND	ND	ND	ND	0.0089
4-chloroaniline	5		ND	ND	ND	ND	0.0089
bis(-2-chloroethoxy)methane	5		ND	ND	ND	ND	0.0089
bis(2-chloroethyl)ether	1		ND	ND	ND	ND	0.0089
2-chloronapthalene		10	ND	ND	ND	ND	0.0089
2-chlorophenol	1†		ND	ND	ND	ND	0.0089
2,2'-oxybis(1-chloropropane)	5		ND	ND	ND	ND	0.0089
chrysene		0.002	ND	ND	ND	ND	0.0089
dibenzo(a,h)anthracene	NR	NR	ND	ND	ND	ND	0.0089
dibenzofuran	NR	NR	ND	ND	ND	ND	0.0089
1,2-dichlorobenzene	3		ND	ND	ND	ND	0.0089
1,3-dichlorobenzene	3		ND	ND	ND	ND	0.0089
1,4-dichlorobenzene	3		ND	ND	ND	ND	0.0089
3,3'-dichlorobenzidine	5		ND	ND	ND	ND	0.0089
2,4-dichlorophenol	5		ND	ND	ND	ND	0.0089
diethylphthalate		50	ND	ND	ND	ND	0.0089
dimethyl phthalate		50	ND	ND	ND	ND	0.0089
2,4-dimethylphenol		50	ND	ND	ND	ND	0.0089
2,4-dinitrophenol		10	ND	ND	ND	ND	0.045
2,4-dinitrotoluene	5		ND	ND	ND	ND	0.0089
2,6-dinitrotoluene	5		ND	ND	ND	ND	0.0089
bis(2-ethylhexyl)phthalate	5		ND	ND	ND	ND	0.0089
fluoranthene		50	ND	ND	ND	ND	0.0089
fluorene		50	ND	ND	ND	ND	0.0089
hexachlorobenzene	0.04		ND	ND	ND	ND	0.0089
hexachlorobutadiene	0.5		ND	ND	ND	ND	0.0089
hexachlorocyclopentadiene	5		ND	ND	ND	ND	0.0089

TABLE 2-4
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



MEDIUM WELL SVOCs

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)				MRL
			MW-10M	MW-11M	MW-12M	MW-13M	
			1.00	1.00	1.00	1.00	
hexachloroethane	5		ND	ND	ND	ND	0.0089
isophorone		50	ND	ND	ND	ND	0.0089
2-methylnaphthalene	NR	NR	ND	ND	ND	ND	0.0089
2-methylphenol	1†		ND	ND	ND	ND	0.0089
4,6-dinitro-2-methylphenol	1†		ND	ND	ND	ND	0.045
4-chloro-3-methylphenol	1†		ND	ND	ND	ND	0.0089
3+4-methylphenol	1†		ND	ND	ND	ND	0.0089
naphthalene		10	ND	ND	ND	ND	0.0089
2-nitroaniline	5		ND	ND	ND	ND	0.0089
3-nitroaniline	5		ND	ND	ND	ND	0.0089
4-nitroaniline	5		ND	ND	ND	ND	0.0089
nitrobenzene	0.4		ND	ND	ND	ND	0.0089
2-nitrophenol	1†		ND	ND	ND	ND	0.0089
4-nitrophenol	1†		ND	ND	ND	ND	0.045
n-nitrosodimethylamine	NR	NR	ND	ND	ND	ND	0.0089
n-nitrosodiphenylamine		50	ND	ND	ND	ND	0.0089
di-n-octyl phthalate		50	ND	ND	ND	ND	0.0089
pentachlorophenol	1†		ND	ND	ND	ND	0.045
phenanthrene		50	ND	ND	ND	ND	0.0089
phenol	1†		ND	ND	ND	ND	0.0089
4-bromophenyl-phenylether	NR	NR	ND	ND	ND	ND	0.0089
4-chlorophenyl-phenylether	NR	NR	ND	ND	ND	ND	0.0089
n-nitroso-di-n-propylamine	NR	NR	ND	ND	ND	ND	0.0089
pyrene		50	ND	ND	ND	ND	0.0089
1,2,4-trichlorobenzene	5		ND	ND	ND	ND	0.0089
2,4,5-trichlorophenol	1†		ND	ND	ND	ND	0.0089
2,4,6-trichlorophenol	1†		ND	ND	ND	ND	0.0089
TOTALS			ND	ND	ND	0.013	

D - Reported concentration is a result of a dilution.

ND - Not Detected, above the laboratory detection limit

† - Applies to the sum total of these substances

TABLE 2-5
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



MEDIUM WELL VOCs, TPH, METALS

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)				MRL
			MW-10M	MW-11M	MW-12M	MW-13M	
Well ID							
Dilution			1.00	1.00	1.00	1.00	
acetone		50	ND	ND	ND	ND	0.01
benzene	1		ND	ND	ND	ND	0.005
bromodichloromethane		50	ND	ND	ND	ND	0.005
bromoform		50	ND	ND	ND	ND	0.005
bromomethane	5		ND	ND	ND	ND	0.005
2-butanone (MEK)		50	ND	ND	ND	ND	0.01
carbon disulfide	NR	NR	ND	ND	ND	ND	0.01
carbon tetrachloride	5		ND	ND	ND	ND	0.005
chlorobenzene	5		ND	ND	ND	ND	0.005
chloroethane	5		ND	ND	ND	ND	0.005
chloroform	7		ND	ND	ND	ND	0.005
chloromethane	5		ND	ND	ND	ND	0.005
dibromochloromethane		50	ND	ND	ND	ND	0.005
1,1-dichloroethane	5		ND	ND	ND	ND	0.005
1,2-dichloroethane	0.6		ND	ND	ND	ND	0.005
1,1-dichloroethene	5		ND	ND	ND	ND	0.005
cis-1,2-dichloroethene	5		ND	ND	ND	ND	0.005
trans-1,2-dichloroethene	5		ND	ND	ND	ND	0.005
1,2-dichloropropane	1		ND	ND	ND	ND	0.005
cis-1,3-dichloropropene	0.4*		ND	ND	ND	ND	0.005
trans-1,3-dichloropropene	0.4*		ND	ND	ND	ND	0.005
ethylbenzene	5		ND	ND	ND	ND	0.005
2-hexanone		50	ND	ND	ND	ND	0.01
methylene chloride	5		ND	ND	ND	ND	0.005
4-methyl-2-pentanone (MIBK)	NR	NR	ND	ND	ND	ND	0.01
styrene	5		ND	ND	ND	ND	0.005
1,1,2,2-tetrachloroethane	5		ND	ND	ND	ND	0.005
tetrachloroethene	5		ND	ND	ND	ND	0.005
toluene	5		ND	ND	ND	ND	0.005
1,1,1-trichloroethane	5		ND	ND	ND	ND	0.005
1,1,2-trichloroethane	1		ND	ND	ND	ND	0.005
trichloroethene	5		ND	ND	ND	ND	0.005
vinyl chloride	2		ND	ND	ND	ND	0.005
m+p xylene	5 (each)		ND	ND	ND	ND	0.005
o-xylene	5		ND	ND	ND	ND	0.005
TOTAL VOC'S			ND	ND	ND	ND	

Total Oil & Grease (HEM)			ND	ND	ND	ND	0.0049
SOLUBLE ARSENIC	25		ND	ND	ND	ND	0.01
SOLUBLE LEAD	25		ND	ND	ND	ND	0.05

ND - Not Detected, above the laboratory detection limit

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

TABLE 2-6
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



DEEP WELL SVOCs

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)		MRL
			MW-10D	MW-12D	
Well ID					
Dilution			1.00	1.00	
acenaphthene		20	ND	ND	0.0089
acenaphthylene	NR	NR	ND	ND	0.0089
anthracene		50	ND	ND	0.0089
benzo(a)anthracene		0.002	ND	ND	0.0089
benzo(a)pyrene	>ND		ND	ND	0.0089
benzo(b)fluoranthene		0.002	ND	ND	0.0089
benzo(g,h,i)perylene	NR	NR	ND	ND	0.0089
benzo(k)fluoranthene		0.002	ND	ND	0.0089
benzyl alcohol	NR	NR	ND	ND	0.0089
butly benzyl phthalate		50	ND	ND	0.0089
di-n-butylphthalate	50		ND	ND	0.0089
Caprolactam			0.057	ND	0.0089
carbazole	NR	NR	ND	ND	0.0089
indeno(1,2,3-cd)pyrene		0.002	ND	ND	0.0089
4-chloroaniline	5		ND	ND	0.0089
bis(-2-chloroethoxy)methane	5		ND	ND	0.0089
bis(2-chloroethyl)ether	1		ND	ND	0.0089
2-chloronapthalene		10	ND	ND	0.0089
2-chlorophenol	1†		ND	ND	0.0089
2,2'-oxybis(1-chloropropane)	5		ND	ND	0.0089
chrysene		0.002	ND	ND	0.0089
dibenzo(a,h)anthracene	NR	NR	ND	ND	0.0089
dibenzofuran	NR	NR	ND	ND	0.0089
1,2-dichlorobenzene	3		ND	ND	0.0089
1,3-dichlorobenzene	3		ND	ND	0.0089
1,4-dichlorobenzene	3		ND	ND	0.0089
3,3'-dichlorobenzidine	5		ND	ND	0.0089
2,4-dichlorophenol	5		ND	ND	0.0089
diethylphthalate		50	ND	ND	0.0089
dimethyl phthalate		50	ND	ND	0.0089
2,4-dimethylphenol		50	ND	ND	0.0089
2,4-dinitrophenol		10	ND	ND	0.045
2,4-dinitrotoluene	5		ND	ND	0.0089
2,6-dinitrotoluene	5		ND	ND	0.0089
bis(2-ethylhexyl)phthalate	5		ND	ND	0.0089
fluoranthene		50	ND	ND	0.0089
fluorene		50	ND	ND	0.0089
hexachlorobenzene	0.04		ND	ND	0.0089

TABLE 2-6
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



DEEP WELL SVOCs

ANALYTE	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)		MRL
			MW-10D	MW-12D	
Well ID					
Dilution			1.00	1.00	
hexachlorobutadiene	0.5		ND	ND	0.0089
hexachlorocyclopentadiene	5		ND	ND	0.0089
hexachloroethane	5		ND	ND	0.0089
isophorone		50	ND	ND	0.0089
2-methylnapthalene	NR	NR	ND	ND	0.0089
2-methylphenol	1†		ND	ND	0.0089
4,6-dinitro-2-methylphenol	1†		ND	ND	0.045
4-chloro-3-methylphenol	1†		ND	ND	0.0089
3+4-methylphenol	1†		ND	ND	0.0089
napthalene		10	ND	ND	0.0089
2-nitroaniline	5		ND	ND	0.045
3-nitroaniline	5		ND	ND	0.045
4-nitroaniline	5		ND	ND	0.045
nitrobenzene	0.4		ND	ND	0.0089
2-nitrophenol	1†		ND	ND	0.0089
4-nitrophenol	1†		ND	ND	0.045
n-nitrosodimethylamine	NR	NR	ND	ND	0.0089
n-nitrosodiphenylamine		50	ND	ND	0.0089
di-n-octyl phthalate		50	ND	ND	0.0089
pentachlorophenol	1†		ND	ND	0.045
phenanthrene		50	ND	ND	0.0089
phenol	1†		ND	ND	0.0089
4-bromophenyl-phenylether	NR	NR	ND	ND	0.0089
4-chlorophenyl-phenylether	NR	NR	ND	ND	0.0089
n-nitroso-di-n-propylamine	NR	NR	ND	ND	0.0089
pyrene		50	ND	ND	0.0089
1,2,4-trichlorobenzene	5		ND	ND	0.0089
2,4,5-trichlorophenol	1†		ND	ND	0.0089
2,4,6-trichlorophenol	1†		ND	ND	0.0089
TOTALS			0.057	ND	

ND - Not Detected, above the laboratory detection limit

† - Applies to the sum total of these substances

TABLE 2-7
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 14, 2023



DEEP WELL VOCs, TPH, METALS

ANALYTE	Well ID	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANALYTICAL RESULTS (mg/L)			MRL
				MW-10D	MW-10D ¹	MW-12D	
	Dilution			1.00	1.00	1.00	
acetone			50	ND	NR	ND	0.01
benzene	1			ND	NR	ND	0.005
bromodichloromethane			50	ND	NR	ND	0.005
bromoform			50	ND	NR	ND	0.005
bromomethane	5			ND	NR	ND	0.005
2-butanone (MEK)			50	ND	NR	ND	0.01
carbon disulfide	NR	NR		ND	NR	ND	0.01
carbon tetrachloride	5			ND	NR	ND	0.005
chlorobenzene	5			ND	NR	ND	0.005
chloroethane	5			ND	NR	ND	0.005
chloroform	7			ND	NR	ND	0.005
chloromethane	5			ND	NR	ND	0.005
dibromochloromethane			50	ND	NR	ND	0.005
1,1-dichloroethane	5			ND	NR	ND	0.005
1,2-dichloroethane	0.6			ND	NR	ND	0.005
1,1-dichloroethene	5			ND	NR	ND	0.005
cis-1,2-dichloroethene	5			ND	NR	ND	0.005
trans-1,2-dichloroethene	5			ND	NR	ND	0.005
1,2-dichloropropane	1			ND	NR	ND	0.005
cis-1,3-dichloropropene	0.4*			ND	NR	ND	0.005
trans-1,3-dichloropropene	0.4*			ND	NR	ND	0.005
ethylbenzene	5			ND	NR	ND	0.005
2-hexanone			50	ND	NR	ND	0.005
methylene chloride	5			ND	NR	ND	0.005
4-methyl-2-pentanone (MIBK)	NR	NR		ND	NR	ND	0.01
styrene	5			ND	NR	ND	0.005
1,1,2,2-tetrachloroethane	5			ND	NR	ND	0.005
tetrachloroethene	5			ND	NR	ND	0.005
toluene	5			ND	NR	ND	0.005
1,1,1-trichloroethane	5			ND	NR	ND	0.005
1,1,2-trichloroethane	1			ND	NR	ND	0.005
trichloroethene	5			ND	NR	ND	0.005
vinyl chloride	2			ND	NR	ND	0.005
m+p xylene	5 (each)			ND	NR	ND	0.005
o-xylene	5			ND	NR	ND	0.005
TOTAL VOC'S				ND	NR	ND	

Total Oil & Grease (HEM)			16.3	ND	ND	0.0053
Total Petroleum Hydrocarbons (ORO)			NR	0.56	NR	0.1000
Total Petroleum Hydrocarbons (DRO)			NR	0.15	NR	0.1000
SOLUBLE ARSENIC	25		ND	NR	ND	0.01
SOLUBLE LEAD	25		ND	NR	ND	0.05

1- MW-10D was sampled on November 14, 2024, for TPH per NYSDEC directive dated May 9, 2024.

ND - Not Detected, above the laboratory detection limit

NR - Not required per NYSDEC directive, See section 3.4 for more details

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-8
PRE-CONSTRUCTION SAMPLING OF SHALLOW WELLS
(JUNE - AUGUST, 1991)



(concentrations in mg/L)

	MW-4S	MW-4S	MW-5S	MW-6S	MW-6S	
ANALYTE	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	AVERAGE
SVOC's (Base Neutrals)	0.017	0.016	0.12	0.29	0.1	0.109
Total VOC's	ND	0.0059	ND	0.042	0.003	0.0102
TPH	4.4	1.8	2.2	5.8	ND	2.8
Soluble Arsenic	0.0348	0.0355	0.0147	0.0271	0.0057	0.0236
Soluble Lead	10.1	8.09	4.45	3.56	0.367	5.313

ND- analyte not detected

Table 2-9
Summary of Post-Closure Groundwater Monitoring Data
Total SVOCs
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



			Well ID	MW-10S								MW-10M								MW-10D					
Analyte	CAS No.	NYS Water Quality Standard	Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/19/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/19/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019
			NYS Water Quality Guidance Value	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
acenapthene	83-32-9	NR	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
acenapthylene	208-96-8		NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
anthracene	120-12-7		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)anthracene	56-55-3		0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo(a)pyrene	50-32-8	>ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo(b)fluoranthene	205-99-2	NR	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo(g,h,i)perylene	191-24-2		NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo(k)fluoranthene	207-08-9		0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzyl alcohol	100-51-6		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
butly benzyl phthalate	85-68-7	50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
di-n-butylphthalate	84-74-2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Caprolactum	105-60-2		NR	NR								ND								ND					
carbazole	86-74-8		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene	193-39-5	5	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline	106-47-8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(-2-chloroethoxy)methane	111-91-1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl)ether	111-44-4		1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronapthalene	91-85-7	1†	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chlorophenol	95-57-8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis(1-chloropropane)	108-60-1		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
chrysene	218-01-9		0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenzo(a,h)anthracene	55-70-3	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenzofuran	132-64-9	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	95-50-1		3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	541-73-1		3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	106-46-7		3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	120-83-2		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
diethylphthalate	84-66-2			50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dimethyl phthalate	131-11-3		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	105-67-9	5	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	51-28-5		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	121-14-2		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	606-20-2		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	117-81-7	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
fluoranthene	206-44-0		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
fluorene	86-73-7		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hexachlorobenzene	118-74-1		0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hexachlorobutadiene	87-68-3	5	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hexachlorocyclopentadiene	77-47-4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hexachloroethane	67-72-1		5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
isophorone	78-59-1		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnapthalene	91-57-6	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylphenol	95-48-7	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-dinitro-2-methylphenol	534-52-1		1†	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	59-50-7		1†	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3- and 4-methylphenol	NA		1†	ND	ND	ND	ND																		

Notes:
Bolded results exceed NYS Ambient Water Quality Standards.
NR - No groundwater standard or guidance value available.
ND - Analyte not detected in Sample
NS - Not sampled
† - Applies to the sum total of these substances

Notes:
Bolded results exceed NYS Ambient Water Quality Standards.
NR - No groundwater standard or guidance value available.
ND - Analyte not detected in Sample
NS - Not sampled
† - Applies to the sum total of these substances

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-105							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/19/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-10M							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/19/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



			Well ID	MW-100									
Analyte	CAS No.	NYS Water Quality Standard	Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023	11/14/2024	
			NYS Water Quality Guidance Value	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
acetone	67-64-1		50	ND	ND	ND	ND	0.002	0.01	0.013	ND	NS	
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND	NS	
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND	NS	
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND	NS	
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND	NS	
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	NS	
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND	NS	
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND	NS	
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND	NS	
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND	NS	
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND	NS	
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	NS	
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND	NS	
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND	NS	
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND	NS	
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND	NS	
Total VOCs				ND	ND	ND	ND	0.002	0.01	0.013	ND	NS	
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	16.3	ND	
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND	NS	
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND	NS	

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



			Well ID	MW-115								
Analyte	CAS No.	NYS Water Quality Standard	Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023	
			NYS Water Quality Guidance Value	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND	
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND	
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND	
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND	
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND	
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND	
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND	
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND	
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND	
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND	
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND	
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND	
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND	
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND	
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND	
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND	
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND	
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND	
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND	
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND	
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND	
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND	
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND	
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND	
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND	
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND	
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-11M							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-125							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-12M							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-12D							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-135							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	0.012	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	0.012	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-13M							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	ND	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
TPH ¹	NA			ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC	7440-38-2	25		ND	0.012	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD	7439-92-1	25		ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

Table 2-10
Summary of Post-Closure Groundwater Monitoring Data
Total VOCs, TPH, Soluble Arsenic, and Soluble Lead
2014 to 2024

Union Road Site - Cheektowaga, NY
(Site Registry No. 9-15-128)



Analyte	CAS No.	NYS Water Quality Standard	Well ID Date NYS Water Quality Guidance Value	MW-145							
				9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/2017 mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L
acetone	67-64-1		50	ND	ND	ND	ND	ND	0.014	ND	ND
benzene	71-43-2	1		ND	ND	ND	ND	ND	ND	ND	ND
bromodichloromethane	75-27-4		50	ND	ND	ND	ND	ND	ND	ND	ND
bromoform	75-25-2		50	ND	ND	ND	ND	ND	ND	ND	ND
bromomethane	74-83-9	5		ND	ND	ND	ND	ND	ND	ND	ND
2-butanone (MEK)	78-93-3		50	ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide	75-15-0	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
carbon tetrachloride	56-23-5	5		ND	ND	ND	ND	ND	ND	ND	ND
chlorobenzene	108-90-7	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane	75-00-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroform	67-66-3	7		ND	ND	ND	ND	ND	ND	ND	ND
chloromethane	74-87-3	5		ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	75-34-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	107-06-2	0.6		ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	75-35-4	5		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-dichloroethene	156-59-2	5		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	156-60-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	78-87-5	1		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	10061-01-5	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND	ND	ND	ND	ND	ND
ethylbenzene	100-41-4	5		ND	ND	ND	ND	ND	ND	ND	ND
2-hexanone	591-78-6		50	ND	ND	ND	ND	ND	ND	ND	ND
methylene chloride	75-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND
styrene	100-42-5	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	79-34-5	5		ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	127-18-4	5		ND	ND	ND	ND	ND	ND	ND	ND
toluene	108-88-3	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	71-55-6	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND	ND	ND	ND	ND	ND
trichloroethene	79-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND
vinyl chloride	75-01-4	2		ND	ND	ND	ND	ND	ND	ND	ND
m+p xylene	NA	5 (each)		ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	95-47-6	5		ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs				ND	ND	ND	ND	ND	0.014	ND	ND
TPH ¹				ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE ARSENIC				ND	ND	ND	ND	ND	ND	ND	ND
SOLUBLE LEAD				ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

NS - Not sampled

* - Applies to the sum total of cis- and trans-1,3-dichloropropene

TABLE 2-11
UNION ROAD
GROUNDWATER MONITORING REPORT
August 21, 2024



WELL PURGING SUMMARY

Well Number	Temperature (Celcius)	pH	ORP (mV)	Conductivity (ms/cm)	Turbidity (BTU)	Disolved Oxygen (mg/L)	Notes
10S	14.12	7.26	-113	0.85	344	6.63	Grey Water
10M	13.12	6.66	-70	2.60	47.4	3.41	
10D ⁷	11.94	8.25	-6	1.68	33.3	5.20	purged dry
11S	12.62	7.07	-13	1.14	42.6	3.45	
11M	12.16	7.10	-81	1.68	106	4.55	
12S	14.90	7.12	-38	1.42	17.8	4.14	
12M	13.75	7.52	84	0.54	1.40	1.96	
12D	14.00	7.70	-104	0.62	0.00	2.51	
13S	14.66	7.15	-130	0.91	107	6.47	
13M	14.46	7.58	-105	1.04	308	2.32	
14S ²	13.35	6.97	101	1.53	0.00	5.37	
15	NA	6.97	-103	1.14	366	2.74	Grey Water
16	14.82	7.11	-101	1.94	442	2.82	Grey Water
17	13.27	6.85	-69	3.20	629	4.45	Grey Water
18	NA	NA	NA	NA	NA	NA	No water
19	14.03	7.11	-121	1.16	219	2.72	Very Thick Prodcut
20	NA	NA	NA	NA	NA	NA	Very thick product
21	12.70	7.93	-120	0.67	116	2.28	Black water
22	13.50	7.73	-135	1.63	226	3.58	Very thick product

¹ Elevations were surveyed by Douglas C. Meyers P.L.S., P.C. on March 17, 1997

² MW-14S was reinstalled, developed and resurveyed on August 19, 1997.

³ All Elevations are referenced to Mean Sea Level

⁴ All wells are two 2-inches in diameter

⁵ Well development was performed on 1/16/1997

⁶NA - not availble due to well not sampled

⁷MW-10D Water Quality Parameters were taken on November 14, 2024

APPENDIX A
FIELD NOTES

3/13/2024 Sunny ~ 30°F 4Q24
Cheektowaga, NY Discharge Sampling

50 - UMC on-site, gate open and chain cut

time	totalizer	temp
00	164482	45° NA
15	164785	45°F
30	165140	50
45	165610	50
00	165958	50

00: UMC observed a downed tree on the east fence of the landfill, UMC removed the tree from the landfill portion of the site.

0915 - UMC off-site after completing a quick site tour, the gates are locked and the shed is closed.

3/17/2024 Sunny ~ 37°F
Cheektowaga, NY

Union Road 1Q24 Discharge Sampling Event

0755 - UMC on-site, unlocked the gates and the shed

* pump fell below low-level, shut off until 0915

time	totalizer	temp.
0815	172373	11
0830	172889	50°F
0845	173353	51°F
0900*	173569	51°F
0915	173601	49°F

0920 - UMC took the 1Q24 Effluent Sample

0940 - UMC off-site, closed the shed and the gate

Rite in the Rain

5/1/24 Sunny ~ 50°F Cheektowaga,
NY

2Q24 Discharge Sampling Event

0755- UMC on-site, gate and shed
opened, no problems

time	totalizer	temp	ph
0810	187798	—	—
0825	188145	11.0°C	7.16
0840	188595	11.7°C	7.26
0855	188878	16.5°C	7.69
0910	188976	RM 5/1/24 19.3°C 12.2°C	6.96 7.20

0855- pump fell below low-level, turned
off until 0905

0915- Sample 2Q24 taken:
Tph, phenols = grab lead, TSS = Comp.

0930- UMC off-site, gate and shed
closed, no problems

6/4/2024 Sunny ~ 70°F Cheektowaga,
NY

Electric Flowmeter Replacement and Site Upkeep Event

0745- UMC on-site, gate and
shed opened, no problems

0820- Replaced all of the well locks
and photographed the heaving
well pads (Mw-12S, Mw-12M,
Mw-12D, Mw-11S, Mw-11M)

0845- Grid One Solutions is
on-site

0930- Took GPS coordinates of
all exterior wells
(waypoints under "Union Road"
wpt file)

Note: photographs or erosion were
impossible due to overgrown
vegetation obscuring view

6/4/2024 Sunny ~70°F Cheektowaga,
Ny

0955 - Grid one Solutions finished
repairing the electric flowmeter
and left the site (photos taken)

1037 - Completed Site-walk

1055 - Completed mapping all interior
wells found

1200 - Completed mapping the proposed
well/boring locations, photos
taken

1205 - UMC off-site after closing
both gates and locking
the shed

8/20/2024 cloudy ~60°F Cheektowaga,
Ny

Union Road 3Q24 Effluent
Discharge Sampling Event

0750 - UMC on-site and unlocked the
gate (Key broken)

time	totalizer	temp	PH
		8/20/24	PH
0800	212512		
0815	212681	13.54°C	7.17
0830	213310	12.98°C	6.96
0845	213725	13.20°C	7.23
0855	214185	14.18°C	7.23
0900			

0915 - Sample 3Q24 taken

Tph, phenols = grab lead, TSS = comp.

0925 - UMC off-site to procure
equipment for the Union Road
Site

8/20/2024 Cloudy ~ 60°F Cheektowaga, NY

Union Road 2024 Bi-Annual Monitoring Well Gauging Event

10:30 - UMC on-site to begin MW gauging

13:30 - UMC off-site to get lunch

14:00 - UMC on-site to continue MW gauging

15:40 - UMC off-site after gauging
MW on the perimeter of
the site

8/21/2024 Sunny ~ 55°F Cheektowaga, NY

Union Road 2024 Bi-Annual Monitoring Well Gauging Event (continued)

0745 - UMC on-site, unlocked the
gate/fence/shed with no issues

0800 - UMC begins gauging MW on
the perimeter of the site

13:30 - UMC off-site for lunch

14:00 - UMC back on-site to
continue gauging wells

16:30 - UMC off-site after
completing the gauging of
some monitoring wells

11/14/2024 Sunny ~45°F Cheektowaga
NY

4Q24 Effluent Sampling Event

0800 - UMC on-site able to open all locks except for the shed (possibly rusted out)

0820 - Tim Sanner (Tri-County tool and rental on-site) and begins landfill cap mowing

0920 - Aaron (Buffalo Lockout Services) arrived on-site and began drilling out and replacing the shed lock

1030 - Aaron off-site after replacing the shed lock

1030 - UMC off-site to pick up equipment from Pine

1110 - UMC on-site after picking up equipment at Pine

Effluent Sampling:

time	totalizer	pH	Temp.
1115	228658		
1130*	228977	6.99	11.35 °C
1145*	228312	6.84	11.5 °C
1200*	229312	6.94	11.38
1215*	229400	7.01	11.16

* at 1145 the low-level alarm activated, pump was turned off until 1145, also 1147 to 12:00, 12:01 to 12:15

4Q24 Sample (Tolt, phenols = grab)
(TSS, lead = comp.) taken at 12:20

MW-10D Sampling:

UMC began sampling at 1230. See Well Sheet for more information

1330 - UMC off-site after completing all field activities

Union Road Site Cheektowaga, NY

Project Number: 2011-200

Cooler Packing Form

Sampling Event Date: 8/20/2024

Cooler: A

Number of Samples Collected	Sample ID	Sample Type	Sample Matrix	Collection Date	Collection Time	Number of Containers	Samples Received By	COC Prepared By	Samples Packed By	COC Checked By
1	3Q24 Effluent	AS	GW	8/20/24	0915	4	TS	RM	TS	MO
2	MW-10D	AS	GW	8/20/24	1530	1	TS	RM	TS	MO
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Sample Type: AS= Analytical Sample; EB= Equipment Blank; FB= Field Blank; TB= Trip Blank

Matrix Type: Soil= Soil; Sed= Sediment; GW= Groundwater; NAPL= Oil/Product; DW=Drinking Water; AQ=Aqueous

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: MW-100 Date: 11/14/2024

Site Location/ Job #: Union Road

Project Manager: Rigby Michaelson

Worksheet Completed by: 11

Weather Conditions: Sunny ~50°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): Na

Depth to Product (ft): Na

Well Depth (ft.): 48.35 - Depth to water (ft.): 16.28 = Height of Water Column (ft.): 32.07

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 5.22 **x 3 =** Well volumes to be purged (gal.): 15.68

STEP TWO: PURGE THE WELL

Purging method: bailer

Time purging began: 1250

Volume actually purged (gal.): ~ 6.00

Time purging ended: 1330

Did the well purge dry? Yes ☒ No ☐

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>9.75</u>	<u>8.43</u>	<u>6</u>	<u>1.63</u>	<u>0.0</u>	<u>2.35</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: bailer Sample ID: MW-100 Sample Time: 1320

QA/QC Sample: Yes ☐ No ☒

Sampling Method: Na Sample ID: Na Sample Time: Na

Comments/Notes/Repairs? very little water in the well at time of sampling/purging. A possible broken well screen around 20 ft bgs.

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 10-5 Date: 8/21/24

Site Location/ Job #: Zoll - 200

Project Manager: Rigby Michaelson

Worksheet Completed by: Tobias Sisco

Weather Conditions: 60°F, Sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): _____

Well Depth (ft.): 20.0 - Depth to water (ft.): 10.5 = Height of Water Column (ft.): 9.5

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.55 **x 3 =** Well volumes to be purged (gal.): 4.65

STEP TWO: PURGE THE WELL

Purging method: Ballot

Time purging began: 0934

Volume actually purged (gal.): 5

Time purging ended: 0947

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☐ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.12</u>	<u>7.26</u>	<u>-113</u>	<u>0.854</u>	<u>344</u>	<u>6.63</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Orange driplets present on the ballot
Very murky water

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 10-M Date: 8/20/24

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelson

Worksheet Completed by: Tobias Sisco

Weather Conditions: 60°F, Cloudy

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): _____

Well Depth (ft.): 33.5 - Depth to water (ft.): 13.8 = Height of Water Column (ft.): 19.7

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 3.21 **x 3 =** Well volumes to be purged (gal.): 9.63

STEP TWO: PURGE THE WELL

Purging method: Bailor

Time purging began: 1428

Volume actually purged (gal.): 10

Time purging ended: 1453

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>13.12</u>	<u>6.66</u>	<u>-70</u>	<u>2.60</u>	<u>47.4</u>	<u>3.41</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: _____ Sample ID: _____ Sample Time: _____

QA/QC Sample: Yes ☐ No ☐

Sampling Method: _____ Sample ID: _____ Sample Time: _____

Comments/Notes/Repairs? _____

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: MW-100 Date: 11/14/2024

Site Location/ Job #: Union Road

Project Manager: Rigby Michaelson

Worksheet Completed by: 11

Weather Conditions: Sunny ~50°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): Na

Depth to Product (ft): Na

Well Depth (ft.): 48.35 - Depth to water (ft.): 16.28 = Height of Water Column (ft.): 32.07

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 5.22 **x 3 =** Well volumes to be purged (gal.): 15.68

STEP TWO: PURGE THE WELL

Purging method: bailer Time purging began: 1250

Volume actually purged (gal.): ~6.00 Time purging ended: 1330

Did the well purge dry? Yes ☒ No ☐

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>9.75</u>	<u>8.43</u>	<u>6</u>	<u>1.63</u>	<u>0.0</u>	<u>2.35</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: bailer Sample ID: MW-100 Sample Time: 1320

QA/QC Sample: Yes ☐ No ☒

Sampling Method: Na Sample ID: Na Sample Time: Na

Comments/Notes/Repairs? very little water in the well at time of sampling/purging. A possible broken well screen around 20 ft bgs.

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 11-5 Date: 8/21/24

Site Location/ Job #: Zill - 200

Project Manager: Rigby Michaelson

Worksheet Completed by: Tibet Sisco

Weather Conditions: 55°F, Sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): NA

Well Depth (ft.): 25.56 - Depth to water (ft.): 15.05 = Height of Water Column (ft.): 10.45

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.70 **x 3 =** Well volumes to be purged (gal.): 5.11

STEP TWO: PURGE THE WELL

Purging method: Bailor

Time purging began: 0810

Volume actually purged (gal.): 5

Time purging ended: 0830

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>12.62</u>	<u>7.07</u>	<u>-13</u>	<u>1.14</u>	<u>42.6</u>	<u>3.45</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? _____

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 11M Date: 08/21/2024

Site Location/ Job #: 2011-200
 Project Manager: Rigby Michaelson
 Worksheet Completed by: Rigby Michaelson
 Weather Conditions: Sunny ~ 55°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2
 PID (ppm): 0.0
 Depth to Product (ft.): NA
 Well Depth (ft.): 31.65 - Depth to water (ft.): 20.11 = Height of Water Column (ft.): 11.54

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.88 x **3** = Well volumes to be purged (gal.): 5.64

STEP TWO: PURGE THE WELL

Purging method: Bailer Time purging began: 0810
 Volume actually purged (gal.): 6 Time purging ended: 0830
 Did the well purge dry? Yes ☐ No ☒
 Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>12.16</u>	<u>7.10</u>	<u>-81</u>	<u>1.68</u>	<u>1.06</u>	<u>4.55</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA
 QA/QC Sample: Yes ☐ No ☐
 Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Well water had a distinctive methane-like smell

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 125 Date: 8/20/2024

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelesen

Worksheet Completed by: Rigby Michaelesen

Weather Conditions: Sunny ~ 65°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0.0

Depth to Product (ft): NA

Well Depth (ft.): 26.81 - Depth to water (ft.): 20.44 = Height of Water Column (ft.): 6.37

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.04 x **3** = Well volumes to be purged (gal.): 3.15

STEP TWO: PURGE THE WELL

Purging method: Bailer

Time purging began: 12:25

Volume actually purged (gal.): 4.00

Time purging ended: 12:40

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.90</u>	<u>7.12</u>	<u>-38</u>	<u>1.42</u>	<u>17.8</u>	<u>4.14</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Well ran very close to dry while collecting water for parameter measurements

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 12-M Date: 8/20/24

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelson

Worksheet Completed by: Tobias Sisco

Weather Conditions: Partly Cloudy, 63 °F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): _____

Well Depth (ft.): 44.8 - Depth to water (ft.): 20.9 = Height of Water Column (ft.): 23.9

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 3.90 **x 3 =** Well volumes to be purged (gal.): 11.67

STEP TWO: PURGE THE WELL

Purging method: Bail Time purging began: 1225

Volume actually purged (gal.): 11 Time purging ended: 1300

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>13.75</u>	<u>7.52</u>	<u>89</u>	<u>0.54</u>	<u>1.4</u>	<u>1.96</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? _____

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 12D Date: 08/21/2024

Site Location/ Job #: 2011-200
Project Manager: Rigby Michaelson
Worksheet Completed by: Rigby Michaelson
Weather Conditions: Sunny ~ 65°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2
PID (ppm): 0.0
Depth to Product (ft): NA RM 8/21/2024 18.30
Well Depth (ft.): 18.30 62.45 ↓ 18.30
Depth to water (ft.): 62.45 = Height of Water Column (ft.): 44.15

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 7.20 **x 3 =** Well volumes to be purged (gal.): 21.59

STEP TWO: PURGE THE WELL

Purging method: Bailer Time purging began: 10:30
Volume actually purged (gal.): 22 Time purging ended: 11:25
Did the well purge dry? Yes ☐ No ☒
Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.00</u>	<u>7.70</u>	<u>-104</u>	<u>0.615</u>	<u>0.0</u>	<u>2.5</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA
QA/QC Sample: Yes ☐ No ☒
Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? _____

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 135 Date: 8/20/24

Site Location/ Job #: 2011-200

Project Manager: Rigby Michelson

Worksheet Completed by: Tobias Sisco

Weather Conditions: Cloudy, 60°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): NA

Well Depth (ft.): 23.8 - Depth to water (ft.): 12.9 = Height of Water Column (ft.): 10.9

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.78 x **3** = Well volumes to be purged (gal.): 5.33

STEP TWO: PURGE THE WELL

Purging method: Ballor

Time purging began: 11:06

Volume actually purged (gal.): 5

Time purging ended: 11:23

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☒ No ☐ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.66</u>	<u>7.15</u>	<u>-130</u>	<u>0.908</u>	<u>107</u>	<u>6.47</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: _____

Sample ID: _____

Sample Time: 1132

QA/QC Sample: Yes ☐ No ☐

Sampling Method: _____

Sample ID: _____

Sample Time: _____

Comments/Notes/Repairs? _____

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 13M Date: 08/20/2024

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelson

Worksheet Completed by: Rigby Michaelson

Weather Conditions: cloudy ~60°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0.0

Depth to Product (ft): NA

Well Depth (ft.): 35.91 - Depth to water (ft.): 12.91 = Height of Water Column (ft.): 23.00

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 3.75 **x 3 =** Well volumes to be purged (gal.): 11.25

STEP TWO: PURGE THE WELL

Purging method: bailler

Time purging began: 11:00

Volume actually purged (gal.): 11

Time purging ended: 11:45

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.46</u>	<u>7.58</u>	<u>-105</u>	<u>1.04</u>	<u>308</u>	<u>2.32</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs: _____

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 14-5 Date: 8/21/24

Site Location/ Job #: 2011-200

Project Manager: Rtgy M'Chaulon

Worksheet Completed by: Tollu S/Sc

Weather Conditions: 65 °F, sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): _____

Well Depth (ft.): 19.1 - Depth to water (ft.): 11.5 = Height of Water Column (ft.): 7.6

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.24 **x 3 =** Well volumes to be purged (gal.): 3.72

STEP TWO: PURGE THE WELL

Purging method: Ballot Time purging began: 1015

Volume actually purged (gal.): 4 Time purging ended: 1027

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>13.35</u>	<u>6.97</u>	<u>161</u>	<u>1.53</u>	<u>0.0</u>	<u>5.37</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: _____ Sample ID: _____ Sample Time: _____

Comments/Notes/Repairs? Lots of orange sediment in the water.

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 15 Date: 8/21/24

Site Location/ Job #: Zoll-Zoo

Project Manager: Rigby Michelson

Worksheet Completed by: Tobias Sisco

Weather Conditions: 65°F, Sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): _____

Well Depth (ft.): 24.2 - Depth to water (ft.): 16.1 = Height of Water Column (ft.): 8.1

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.32 x **3** = Well volumes to be purged (gal.): 3.96

STEP TWO: PURGE THE WELL

Purging method: Ball

Time purging began: 1400

Volume actually purged (gal.): 4

Time purging ended: 1420

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
	<u>6.97</u>	<u>-103</u>	<u>1.14</u>	<u>366</u>	<u>2.74</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA

Sample ID: NA

Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: _____

Sample ID: _____

Sample Time: _____

Comments/Notes/Repairs? Extremely Muddy, dark water

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 16 Date: 8/21/24

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaels

Worksheet Completed by: Tobias Sisco

Weather Conditions: 65°F, Partly cloudy

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): NA

Well Depth (ft.): 24.80 - Depth to water (ft.): 15.05 = Height of Water Column (ft.): 9.75

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.59 **x 3 =** Well volumes to be purged (gal.): 4.77

STEP TWO: PURGE THE WELL

Purging method: Ballif

Time purging began: ~~1550~~ 1550

Volume actually purged (gal.): 5

Time purging ended: ~~1605~~ 1605

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.82</u>	<u>7.11</u>	<u>-101</u>	<u>1.99</u>	<u>442</u>	<u>2.82</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Water was murky

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 17 Date: 08/21/2024

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelson

Worksheet Completed by: Rigby Michaelson

Weather Conditions: Sunny ~ 75°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): _____

Depth to Product (ft): _____

Well Depth (ft.): 29.10 - Depth to water (ft.): 20.10 = Height of Water Column (ft.): 9.00

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.47 x **3** = Well volumes to be purged (gal.): 4.4

STEP TWO: PURGE THE WELL

Purging method: RM 2011-200 to Bailer

Time purging began: 15:50

Volume actually purged (gal.): 5

Time purging ended: 16:05

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>13.27</u>	<u>6.85</u>	<u>-69</u>	<u>3.20</u>	<u>629</u>	<u>4.45</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Water was murky and grey

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 18 Date: 8/21/24

Site Location/ Job #: 2011-200

Project Manager: Ryby Michelson

Worksheet Completed by: Tobias Jisco

Weather Conditions: 70°F, Sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft.): NA

Well Depth (ft.): 22.0 - Depth to water (ft.): NA = Height of Water Column (ft.): NA

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): NA **x 3 =** Well volumes to be purged (gal.): NA

STEP TWO: PURGE THE WELL

Purging method: NA

Time purging began: NA

Volume actually purged (gal.): NA

Time purging ended: NA

Did the well purge dry? Yes ☐ No ☐

Was free product/sheen present in the well? Yes ☐ No ☐ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Well is dry

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 19 Date: 8/21/2021

Site Location/ Job #: 2011-200

Project Manager: Rigby Michael Sen

Worksheet Completed by: Rigby Michael Sen

Weather Conditions: cloudy ~70°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0.0

Depth to Product (ft): _____

Well Depth (ft.): 27.61 - Depth to water (ft.): 21.32 = Height of Water Column (ft.): 6.29

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 1.03 **x 3 =** Well volumes to be purged (gal.): 3.08

STEP TWO: PURGE THE WELL

Purging method: Boiler

Time purging began: 14:20

Volume actually purged (gal.): 3

Time purging ended: 14:35

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☒ No ☐ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>14.03</u>	<u>7.11</u>	<u>-121</u>	<u>1.16</u>	<u>219</u>	<u>2.72</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA

Sample ID: NA

Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA

Sample ID: NA

Sample Time: NA

Comments/Notes/Repairs? red/brown oil/grease observed on boiler,
water is very cloudy and grey

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 20 Date: 8/22/2024

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelson

Worksheet Completed by: Rigby Michaelson

Weather Conditions: Sunny ~ 60°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0.0

Depth to Product (ft): 28.7

Well Depth (ft.): 33.93 - Depth to water (ft.): 32.1 = Height of Water Column (ft.): 1.83

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 0.293 **x 3 =** Well volumes to be purged (gal.): 0.88

STEP TWO: PURGE THE WELL

Purging method: Bailer

Time purging began: 16:37

Volume actually purged (gal.): 2

Time purging ended: 17:00

Did the well purge dry? Yes ☒ No ☐

Was free product/sheen present in the well? Yes ☒ No ☐ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Couldn't get water quality parameters due to an abundance of product (oily and black) in the well that could damage equipment.

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 21 Date: 08/21/2024

Site Location/ Job #: 2011-200

Project Manager: Rigby Michaelson

Worksheet Completed by: Rigby Michaelson

Weather Conditions: Sunny ~ 65°F

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0.0

Depth to Product (ft): _____

Well Depth (ft.): 29.80 - Depth to water (ft.): 25.55 = Height of Water Column (ft.): 4.25

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 0.69 **x 3 =** Well volumes to be purged (gal.): 2.08

STEP TWO: PURGE THE WELL

Purging method: Bailer

Time purging began: 0835

Volume actually purged (gal.): 2

Time purging ended: 0855

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☐ No ☒ Sheen ☐

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>12.70</u>	<u>7.93</u>	<u>-120</u>	<u>0.672</u>	<u>116</u>	<u>2.28</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA Sample ID: NA Sample Time: NA

QA/QC Sample: Yes ☐ No ☐

Sampling Method: NA Sample ID: NA Sample Time: NA

Comments/Notes/Repairs? Water is black

GROUNDWATER SAMPLING FIELD WORKSHEET

Well ID: 48 22 Date: 8/22/24

Rm 08/22/24

Site Location/ Job #: 2011 - 206

Project Manager: Rigby, Michaelson

Worksheet Completed by: Tobias Sisuu

Weather Conditions: 60°F, Sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS

Well Diameter (in.): 2

PID (ppm): 0

Depth to Product (ft): 24

Well Depth (ft.): 2133 - Depth to water (ft.): 27.5 = Height of Water Column (ft.): 5.5

Multiply the height of the water column by the appropriate multiplication factor according to well diameter as shown in the tables below:

Well Diameter (inches)	Multiplication Factor
1	0.041
2	0.163
3	0.367
4	0.653

Well Diameter (inches)	Multiplication Factor
6	1.47
8	2.61
10	4.08
12	5.87

Volume of water in the well (gal.): 0.90 x **3** = Well volumes to be purged (gal.): 2.69

STEP TWO: PURGE THE WELL

Purging method: Bail

Time purging began: 0856

Volume actually purged (gal.): 3

Time purging ended: 0905

Did the well purge dry? Yes ☐ No ☒

Was free product/sheen present in the well? Yes ☒ No ☐ Sheen ☒

Record the following parameters at the time of sampling:

Temp (°C)	pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
<u>13.50</u>	<u>7.73</u>	<u>-135</u>	<u>1.63</u>	<u>226</u>	<u>3.58</u>

STEP THREE: SAMPLE THE WELL

Sampling Method: NA

Sample ID: NA

Sample Time: NA

QA/QC Sample: Yes ☐ No ☒

Sampling Method: NA

Sample ID: NA

Sample Time: NA

Comments/Notes/Repairs: Very thick product

DAILY SAFETY MEETING
Unicorn Management Consultants, LLC.
Union Road Site Project#: 2011
Cheektowaga, NY

DATE: 08/20/2024

Participants:

Rigby Michaelson		
Tobias Sisco		

Topics:

Slips/trips/falls
Vegetation
heat exhaustion/stroke
ticks, mosquitos, snakes, etc.

Follow-up:

DAILY SAFETY MEETING
Unicorn Management Consultants, LLC.
Union Road Site Project#: 2011
Cheektowaga, NY

DATE: 08/21/2024

Participants:

Rigby Michaelson		
Tobias Sisco		

Topics:

Slips / trips / Falls
Vegetation
heat exhaustion / stroke
ticks / Mosquitos / Snakes / etc.

Follow-up:

DAILY SAFETY MEETING
Unicorn Management Consultants, LLC.
Union Road Site Project#: 2011
Cheektowaga, NY

DATE: 08/22/2011

Participants:

Rigby Michaelson		
Tobias Sisco		

Topics:

Slips/Trips/Falls
Vegetation
Heat exhaustion/Stroke
Ticks, Mosquitos, Snakes, etc.

Follow-up:

APPENDIX B
SITE PHOTOS



Photo 1: (8/22/2024) The gabion basket on-site that needs to be repaired.



Photo 2: (8/22/2024) A pile of broken wooden pallets adjacent to the culvert area.



Photo 3: (8/22/2024) The culvert fence on-site after it was repaired by UMC.



Photo 4: (8/22/2024) A field directly southeast of the landfill.



Photo 5: (8/22/2024) Cayuga Creek flowing through the southern portion of the Site.



Photo 6-8: (8/22/2024) The landfill cap including the fence and gate that lead into it.



Photo 9-11: (8/22/2024) various paths that lead into and out of the Site.



Photo 12-13: (8/22/2024) The path that leads through the center of the Site.



Photo 14-15: (8/22/2024) The Site shed inside of the of the landfill/fence.



Photo 16-18: Rock piles on-site.



Photo 19-22: Restored Wetlands area surrounding the Site.



Photo 23-24: Gabion basket wing walls adjacent to the culvert.

APPENDIX C
QUARTERLY REPORTS

APPENDIX C
4Q23 Discharge Report



March 20, 2024
OP-4656

Erie County Department of Environment and Planning
Division of Sewerage Management
Erie County Sewer District #6
260 Lehigh Avenue
Lackawanna, New York 14218

Attn: Laura Surdej
Industrial Wastewater Specialist

Subject: Quarterly Discharge Monitoring Report Submittal
(4th Quarter: October to December 2023)
Union Road Site, 333 Losson Road, Cheektowaga, Erie County, NY
Inactive Hazardous Waste Disposal Site No. 915128

Ref: Authorization to Discharge Under Erie County/Buffalo Pollutant
Discharge Elimination System, Permit Number 19-08-E1016

Dear Ms. Surdej:

As required by Part I, Section B of the referenced permit, Unicorn Management Consultants, LLC (UMC) is submitting the Quarterly Discharge Monitoring Report (4th Quarter: October to December 2023) for the subject site. UMC inadvertently missed the 4th quarter sampling of the Union Road discharge, this was an oversight on our part. Once we realized it, we contacted Buffalo Sewer on February 7 and talked with Mr. Mike Zilagy. He said UMC should sample as soon as possible and submit the results as the 4th quarter sampling. UMC collected the samples on Tuesday, February 13, 2024.

The information required for the Discharge Monitoring Report from the subject site is enclosed as follows:

- A summary of analyses with laboratory data which includes date, time, and method used for each analysis;
- Chain of Custody forms;
- Daily Sampling Activity Sheets;
- Analysis Summary Table;
- Quantity of water discharged to the sanitary sewer for the 4th Quarter 2023;
- Conversion of mg/l to lbs/gal for wastewater discharge mass calculations;
- Map indicating the location of the sampling point (Figure 1);
- Certification from the NYS Department of Health for ALS Group USA Corp. dba ALS Environmental (Formerly Columbia Analytical Services, Inc.); and



- A copy of the certification letter, dated May 25, 1995, from American Premier Underwriters, Inc. which authorizes Unicorn Management Consultants, to collect samples and prepare the monitoring reports for the referenced permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the systems, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you should have any questions or comments, please do not hesitate to call me at 203-205-9000, ext. 13.

Sincerely,
Unicorn Management Consultants, LLC

Michael O'Connor
Manager of Environmental Projects
Union Road Remediation Project

Enclosures

cc: M. Zylagyi
M. Kuzcka (electronic copy only)
M. Hill, Esq. (electronic copy only)
L. Lackner (electronic copy only)



Summary of Sampling Activity

A. Sample Point: Discharge pipe in wet well

B. Date: February 13, 2024

C. Time, temperature, and pH of samples: pH was performed in the laboratory and was 6.95
(Pump started at 0800)

First Sample:	0815	45.0 °F
Second Sample:	0830	50.0 °F
Third Sample:	0845	50.0 °F
Fourth Sample:	0900	50.0 °F

(Pump stopped at 0900)

Total run time: 60-Minutes

D. Total water consumption during sampling period:
Meter reading at start: 164,482-gallons
Meter reading at stop: 165,958-gallons

Flow for the 60-minutes is 1,476 gallons.

E. Physical observations (sight, smell, etc.) of the discharge during sample effort: Water is clear and odorless throughout the sampling effort.

F. Weather conditions during entire sampling period: Sunny, ~30 °F

G. Miscellaneous notes: Nothing of note to report, system running

H. UMC Field tech: Rigby Michaelsen and Ryan Siegel



**ANALYSIS SUMMARY TABLE
QUARTERLY
DISCHARGE SAMPLING EVENT**

February 13, 2024

DATE	Composite TIME	Ave. Temp °F	ANALYTES					
			Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD	FLOW
BSA LIMITS			5 TO 12	250 mg/L	100 mg/L	20 mg/L 0.25 LBS	65 mg/L 0.83 LBS	NONE
2/13/2024	0900	50	6.95	ND	ND U	ND U	ND U	1,476
MASS FOR SAMPLE VOLUME						0.000	0.000	

MASS is reported in pounds
concentrations are reported in mg/L

FLOW is reported in gallons

ND = analyte was not detected

NOTE: If analyte was not detected, the detection limit was used to calculate mass loading (reported in pounds)

Detection Limits 1	Total Suspended Solids =	1.00	mg/L
	Total Extractable Hydrocarbons =	4.70	mg/L
	Total Phenols =	0.005	mg/L
	Total Lead =	0.005	mg/L



2023 Discharge Summary

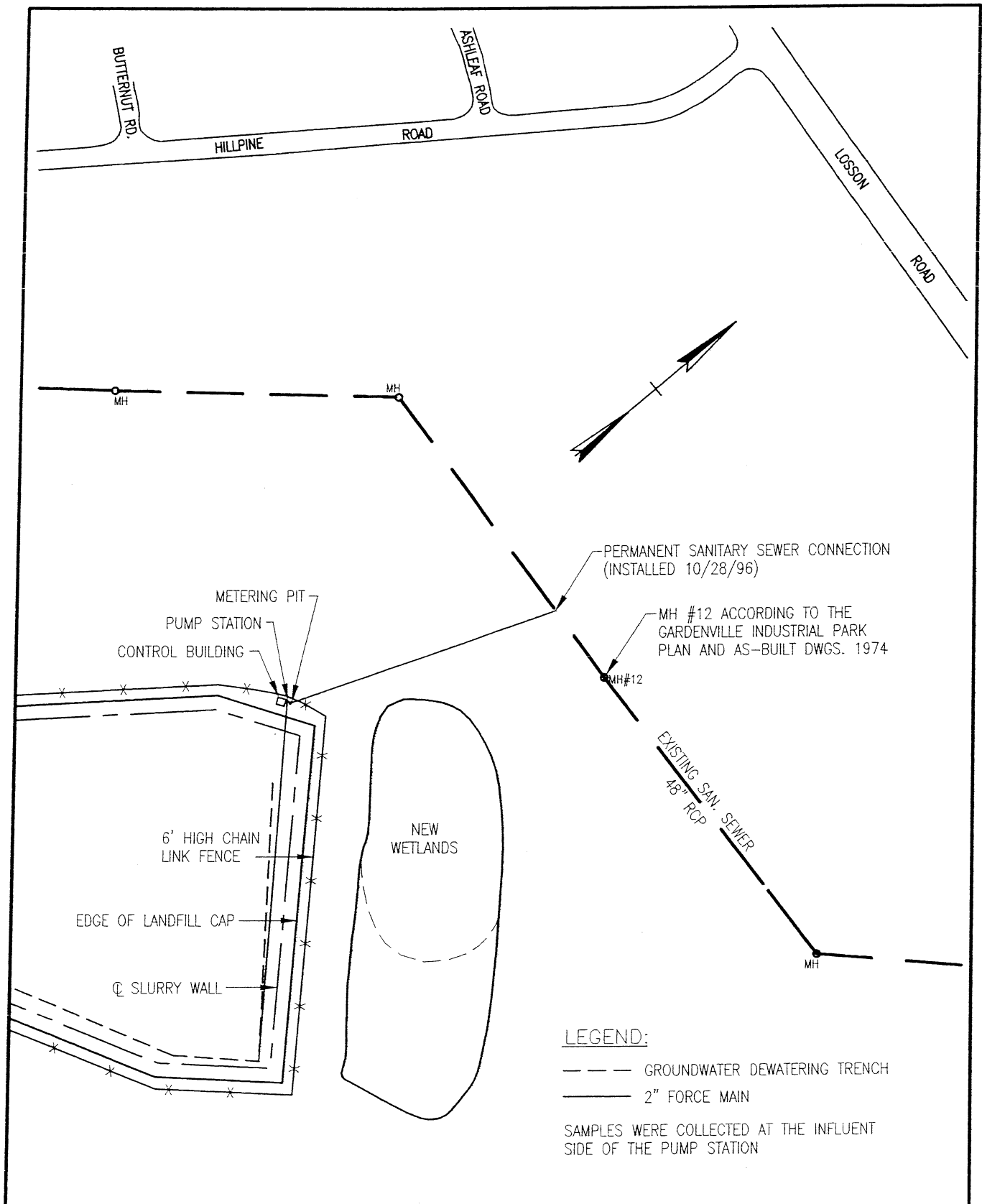
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q23	2/16/23	85,610	23,065
2Q23	5/17/23	106,499	20,899
3Q23	9/14/23	132,900	26,401
4Q23	2/13/24	165,958	33,058
		Yearly Total Gallons	103,423




Conversion Formula

Conversion of mg/L to lbs/gal for Wastewater Discharge:

$$\frac{1mg}{L} * \frac{1g}{1000mg} * \frac{1Kg}{1000g} * \frac{2.205lbs}{1Kg} * \frac{3.78L}{1gal} = \frac{1lb}{119.977gal}$$



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2045-100	
NO.	DATE				FILENAME: 2045100E	SCALE: 1"=200'
		DRAWING	LANDFILL DEWATERING LOCATION		DATE: 11/20/01	BY: AD
					FIGURE # 1	CK:



February 22, 2024

Service Request No:R2401168

Mr. Michael O'Connor
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Mr.O'Connor,

Enclosed are the results of the sample(s) submitted to our laboratory February 13, 2024
For your reference, these analyses have been assigned our service request number **R2401168**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Michael
Ghiourelotis

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2401168
Date Received: 02/13/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 02/13/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 02/22/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 4Q23 Effluent			Lab ID: R2401168-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
pH	6.95				pH Units	SM 4500-H+ B
Temperature of pH Analysis	20.9				deg C	SM 4500-H+ B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request:R2401168

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2401168-001	4Q23 Effluent	2/13/2024	0900

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[illegible]



Cooler Receipt and Preservation

R2401168

5

Unicorn Management Consultants
Union Rd

Project/Client

Folder Number

Cooler received on 2/13/24 by: SESCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 2/13/24 Time: 1123 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.7</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMO by SES on 2/13/24 at 1125
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 2/13/24 Time: 1130 by: RR

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<u>2</u>	<u>213623</u>	HNO ₃		<u>✓</u>	<u>none</u>	<u>-</u>	<u>001</u>	<u>0.5mL</u>	<u>B29B6A</u>	<u>2.2</u>
<u>2</u>	<u>213623</u>	H ₂ SO ₄	<u>✓</u>		<u>22200059</u>	<u>5/25</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate								
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 100322-1EKP, 021323-2ERD, 050922-2EFQ, no lot info
Explain all Discrepancies/ Other Comments:

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR

PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm WC > 1 in. diameter



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2401168

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 4500-H+ B	Water	Temperature of pH Analysis
SM 4500-H+ B	Water	pH

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2401168

Sample Name: 4Q23 Effluent
Lab Code: R2401168-001
Sample Matrix: Water

Date Collected: 02/13/24
Date Received: 02/13/24

Analysis Method

1664B
420.4
6010C
SM 2540 D-2015
SM 4500-H+ B

Extracted/Digested By

ECASTROVINCI

Analyzed By

SZOGBY
BBOWE
MMCMAHON
HCASTROVINCI
SBIRNBERG



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 4Q23 Effluent
Lab Code: R2401168-001

Service Request: R2401168
Date Collected: 02/13/24 09:00
Date Received: 02/13/24 11:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	02/16/24 02:27	02/14/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	02/16/24 02:27	02/14/24	



General Chemistry

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ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 4Q23 Effluent
Lab Code: R2401168-001

Service Request: R2401168
Date Collected: 02/13/24 09:00
Date Received: 02/13/24 11:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.6	1	02/20/24 09:30	
pH	SM 4500-H+ B	6.95	pH Units	-	1	02/14/24 13:00	H
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	02/20/24 12:44	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	02/20/24 14:30	
Temperature of pH Analysis	SM 4500-H+ B	20.9	deg C	-	1	02/14/24 13:00	H



QC Summary Forms

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Metals

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401168-MB

Service Request: R2401168
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	02/16/24 01:07	02/14/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	02/16/24 01:07	02/14/24	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2401168**Date Analyzed:** 02/16/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L**Basis:**NA

Lab Control Sample
R2401168-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	0.0371	0.040	93	80-120
Lead, Total	6010C	0.513	0.500	103	80-120



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401168-MB

Service Request: R2401168
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.0	1	02/20/24 09:30	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	02/20/24 12:20	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	02/20/24 14:30	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2401168
Date Analyzed: 02/20/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401168-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0366	0.0400	92	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	189	214	88	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2401168
Date Analyzed: 02/20/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2401168-LCS1		R2401168-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	37.2	41.5	90	38.8	40.8	95	78-114	4	18

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Dissolved Gases

Acetylene RSK-175

Ethane RSK-175

Ethene (Ethylene) RSK-175

Methane RSK-175

Propane RSK-175

Fuel Additives

Methyl tert-butyl ether EPA 524.2

Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4

Barium, Total EPA 200.8 Rev. 5.4

Cadmium, Total EPA 200.8 Rev. 5.4

Chromium, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Copper, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Iron, Total EPA 200.7 Rev. 4.4

Lead, Total EPA 200.8 Rev. 5.4

Manganese, Total EPA 200.7 Rev. 4.4

Metals I

Manganese, Total EPA 200.8 Rev. 5.4

Mercury, Total EPA 245.1 Rev. 3.0

Selenium, Total EPA 200.8 Rev. 5.4

Silver, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Zinc, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total EPA 200.7 Rev. 4.4

Antimony, Total EPA 200.8 Rev. 5.4

Beryllium, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Molybdenum, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Nickel, Total EPA 200.8 Rev. 5.4

Thallium, Total EPA 200.8 Rev. 5.4

Vanadium, Total EPA 200.7 Rev. 4.4

Metals III

Boron, Total EPA 200.7 Rev. 4.4

Calcium, Total EPA 200.7 Rev. 4.4

Magnesium, Total EPA 200.7 Rev. 4.4

Potassium, Total EPA 200.7 Rev. 4.4

Sodium, Total EPA 200.7 Rev. 4.4

Serial No.: 64293

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Dissolved	SM 21-23 5310C (-00)
Organic Carbon, Total	SM 21-23 5310B (-00)
	SM 21-23 5310C (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2
	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2

Trihalomethanes

Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2

Serial No.: 64293

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Volatile Aromatics

tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2

Volatile Halocarbons

Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

Serial No.: 64293

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**NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 625.1
	EPA 8270D
Carbazole	EPA 625.1
	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D

Amines

Pronamide	EPA 8270D
Propionitrile	EPA 8260C
Pyridine	EPA 625.1
	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 625.1
	EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

beta-BHC	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270D
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbon Pesticides

Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270D
2-Chloronaphthalene	EPA 625.1
	EPA 8270D
Hexachlorobenzene	EPA 625.1
	EPA 8270D
Hexachlorobutadiene	EPA 625.1
	EPA 8270D
Hexachlorocyclopentadiene	EPA 625.1

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Chlorinated Hydrocarbons

Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 625.1
	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A
	EPA 8270D
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Dissolved Gases

Acetylene	RSK-175
Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270D

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 610
	EPA 8270D
Acenaphthylene Low Level	EPA 610

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Low Level Polynuclear Aromatics

Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 610
	EPA 8270D
Benzo(a)anthracene Low Level	EPA 610
	EPA 8270D
Benzo(a)pyrene Low Level	EPA 610
	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 610
	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 610
	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 610
	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 610
	EPA 8270D
Fluorene Low Level	EPA 610
	EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level	EPA 610
	EPA 8270D
Naphthalene Low Level	EPA 610
	EPA 8270D
Phenanthrene Low Level	EPA 610

Low Level Polynuclear Aromatics

Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 610
	EPA 8270D
Metals I	
Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals I

Lead, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Manganese, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Silver, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Sodium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Strontium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 218.6, Rev. 3.3 (1994) EPA 7196A EPA 7199 SM 3500-Cr B-2011 EPA 1631E
Mercury, Low Level	EPA 245.1, Rev. 3.0 (1994)
Mercury, Total	EPA 7470A
Selenium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C

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Metals II		Metals III	
Selenium, Total	EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Tin, Total	EPA 6010C
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Titanium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Uranium (Mass)	EPA 6020A
Metals III		Mineral	
Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Alkalinity	SM 2320B-2011
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Calcium Hardness	SM 2340B-2011
Thallium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Chloride	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Tin, Total	EPA 200.7, Rev. 4.4 (1994)	Fluoride, Total	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
		Hardness, Total	SM 2340C-2011 SM 2340B-2011
		Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
		Miscellaneous	
		Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
		Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
		Color	SM 2120B-2011
		Corrosivity	SM 2330-2016
		Cyanide, Available	SM 4500-CN G-2016
		Cyanide, Total	Kelada-01

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Miscellaneous

Cyanide, Total	SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2011 SM 5310C-2011 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993) EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011 EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 625.1 EPA 8270D
2,6-Dinitrotoluene	EPA 625.1 EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D

Nitroaromatics and Isophorone

Isophorone	EPA 625.1 EPA 8270D
Nitrobenzene	EPA 625.1 EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 625.1 EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625.1 EPA 8270D
N-Nitrosodiphenylamine	EPA 625.1 EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993) EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)

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Nutrient		Phthalate Esters	
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)	Diethyl phthalate	EPA 8270D
	EPA 300.0, Rev. 2.1 (1993)	Dimethyl phthalate	EPA 625.1
	EPA 9056A		EPA 8270D
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)	Di-n-butyl phthalate	EPA 625.1
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)		EPA 8270D
Organophosphate Pesticides		Di-n-octyl phthalate	EPA 625.1
			EPA 8270D
Atrazine	EPA 8270D	Polychlorinated Biphenyls	
Dimethoate	EPA 8270D	Aroclor 1016 (PCB-1016)	EPA 8082A
Disulfoton	EPA 8270D		EPA 608.3
Famphur	EPA 8270D	Aroclor 1221 (PCB-1221)	EPA 8082A
Parathion ethyl	EPA 8270D		EPA 608.3
Parathion methyl	EPA 8270D	Aroclor 1232 (PCB-1232)	EPA 8082A
Phorate	EPA 8270D		EPA 608.3
Sulfotepp	EPA 8270D	Aroclor 1242 (PCB-1242)	EPA 8082A
Thionazin	EPA 8270D		EPA 608.3
Petroleum Hydrocarbons		Aroclor 1248 (PCB-1248)	EPA 8082A
Diesel Range Organics	EPA 8015C		EPA 608.3
Phthalate Esters		Aroclor 1254 (PCB-1254)	EPA 8082A
Benzyl butyl phthalate	EPA 625.1		EPA 608.3
	EPA 8270D	Aroclor 1260 (PCB-1260)	EPA 8082A
Bis(2-ethylhexyl) phthalate	EPA 625.1		EPA 608.3
	EPA 8270D	Aroclor 1262 (PCB-1262)	EPA 8082A
Diethyl phthalate	EPA 625.1	Aroclor 1268 (PCB-1268)	EPA 8082A

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Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 625.1
	EPA 8270D
Acenaphthylene	EPA 625.1
	EPA 8270D
Anthracene	EPA 625.1
	EPA 8270D
Benzo(a)anthracene	EPA 625.1
	EPA 8270D
Benzo(a)pyrene	EPA 625.1
	EPA 8270D
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D
Chrysene	EPA 625.1
	EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270D
Fluoranthene	EPA 625.1

Polynuclear Aromatics

Fluoranthene	EPA 8270D
Fluorene	EPA 625.1
	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D
Naphthalene	EPA 625.1
	EPA 8270D
Phenanthrene	EPA 625.1
	EPA 8270D
Pyrene	EPA 625.1
	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D
2,4-Dichlorophenol	EPA 625.1
	EPA 8270D
2,4-Dimethylphenol	EPA 625.1
	EPA 8270D
2,4-Dinitrophenol	EPA 625.1
	EPA 8270D
2,6-Dichlorophenol	EPA 8270D

Serial No.: 64294

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**NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Priority Pollutant Phenols

2-Chlorophenol	EPA 625.1 EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625.1 EPA 8270D
2-Methylphenol	EPA 625.1 EPA 8270D
2-Nitrophenol	EPA 625.1 EPA 8270D
3-Methylphenol	EPA 625.1 EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1 EPA 8270D
4-Methylphenol	EPA 625.1 EPA 8270D
4-Nitrophenol	EPA 625.1 EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625.1 EPA 8270D
Phenol	EPA 625.1 EPA 8270D

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015

Residue

Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 625.1 EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 625.1 EPA 8270D
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate	EPA 8270D
p-Dimethylaminoazobenzene	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260C
	EPA 624.1
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
	EPA 624.1
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
	EPA 624.1
Ethyl benzene	EPA 8260C
	EPA 624.1
Isopropylbenzene	EPA 8260C

Volatile Aromatics

m/p-Xylenes	EPA 8260C
	EPA 624.1
Naphthalene, Volatile	EPA 8260C
	EPA 624.1
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
	EPA 624.1
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C

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Volatile Halocarbons

1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 624.1
1,1,2-Trichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260C
	EPA 624.1
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
	EPA 624.1
1,2-Dichloropropane	EPA 8260C
	EPA 624.1
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C

Volatile Halocarbons

Bromodichloromethane	EPA 624.1
Bromoform	EPA 8260C
	EPA 624.1
Bromomethane	EPA 8260C
	EPA 624.1
Carbon tetrachloride	EPA 8260C
	EPA 624.1
Chloroethane	EPA 8260C
	EPA 624.1
Chloroform	EPA 8260C
	EPA 624.1
Chloromethane	EPA 8260C
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260C
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C

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Volatile Halocarbons

Methylene chloride	EPA 8260C EPA 624.1
Tetrachloroethene	EPA 8260C EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C EPA 624.1
trans-1,3-Dichloropropene	EPA 8260C EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C EPA 624.1
Trichlorofluoromethane	EPA 8260C EPA 624.1
Vinyl chloride	EPA 8260C EPA 624.1

Volatiles Organics

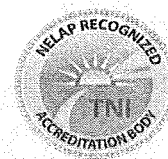
1,4-Dioxane	EPA 8260C EPA 8270D EPA 8270D SIM
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C EPA 624.1

Volatiles Organics

Acetone	EPA 8260C EPA 624.1
Acetonitrile	EPA 8260C EPA 624.1
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethyl Acetate	EPA 8260C EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C EPA 8015C
Isopropanol	EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260C EPA 624.1
Vinyl acetate	EPA 8260C EPA 624.1

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Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Characteristic Testing

Corrosivity (pH)	EPA 9040C
Free Liquids	EPA 9045D
Synthetic Precipitation Leaching Proc.	EPA 9095B
TCLP	EPA 1312
	EPA 1311

Amines

1,2-Diphenylhydrazine	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
Diallate	EPA 8270D
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 8270D

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Chlorinated Hydrocarbon Pesticides

Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
1-Chloronaphthalene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
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Chlorophenoxy Acid Pesticides

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
Pentachlorophenol	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 8270D
Benzo(a)anthracene Low Level	EPA 8270D
Benzo(a)pyrene Low Level	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 8270D
Fluorene Low Level	EPA 8270D

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Low Level Polynuclear Aromatic Hydrocarbons

Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
Naphthalene Low Level	EPA 8270D
Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 8270D

Metals I

Barium, Total	EPA 6010C
	EPA 6020A
Cadmium, Total	EPA 6010C
	EPA 6020A
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
	EPA 6020A
Copper, Total	EPA 6010C
	EPA 6020A
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
	EPA 6020A
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
	EPA 6020A
Nickel, Total	EPA 6010C
	EPA 6020A
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C

Metals I

Silver, Total	EPA 6020A
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6020A
Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6020A
Molybdenum, Total	EPA 6010C

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Metals III

Molybdenum, Total	EPA 6020A
Silica, Dissolved	EPA 6010C
Thallium, Total	EPA 6010C
	EPA 6020A
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C
Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D

Nitroaromatics and Isophorone

4-Dimethylaminoazobenzene	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Organophosphate Pesticides

Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Famphur	EPA 8270D
Parathion ethyl	EPA 8270D

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Organophosphate Pesticides

Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D
Thionazin	EPA 8270D

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
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Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A

Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(g,h,i)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polynuclear Aromatic Hydrocarbons

Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 8270D
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Volatile Aromatics

1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C

Volatile Halocarbons

1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C

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Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260C
	EPA 8270D
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Acetonitrile	EPA 8260C

Volatile Organics

Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propionitrile	EPA 8260C
tert-butyl alcohol	EPA 8260C
Tetrahydrofuran	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B
EPA 3050B
EPA 3546
EPA 3060A
EPA 3541

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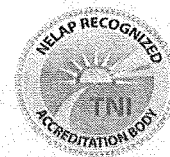
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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8

Serial No.: 64296

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Fuel Additives

Methyl tert-butyl ether EPA 524.2

Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4

Barium, Total EPA 200.8 Rev. 5.4

Cadmium, Total EPA 200.8 Rev. 5.4

Chromium, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Copper, Total EPA 200.8 Rev. 5.4

Iron, Total EPA 200.7 Rev. 4.4

Lead, Total EPA 200.8 Rev. 5.4

Manganese, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Mercury, Total EPA 245.1 Rev. 3.0

Selenium, Total EPA 200.8 Rev. 5.4

Silver, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Zinc, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total EPA 200.7 Rev. 4.4

Antimony, Total EPA 200.8 Rev. 5.4

Serial No.: 66012

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Metals II

Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Total	SM 21-23 5310B (-00)
	SM 21-23 5310C (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2

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Non-Metals

Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2

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Volatile Aromatics

Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2

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Volatile Halocarbons

Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2



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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 625.1
	EPA 8270D
Carbazole	EPA 625.1
	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D
Propionitrile	EPA 8260C
Pyridine	EPA 625.1

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WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
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Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Amines

Pyridine EPA 8270D

Benzidines

3,3'-Dichlorobenzidine EPA 625.1
EPA 8270D
3,3'-Dimethylbenzidine EPA 8270D
Benzidine EPA 625.1
EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD EPA 8081B
EPA 608.3
4,4'-DDE EPA 8081B
EPA 608.3
4,4'-DDT EPA 8081B
EPA 608.3
Aldrin EPA 8081B
EPA 608.3
alpha-BHC EPA 8081B
EPA 608.3
alpha-Chlordane EPA 8081B
EPA 608.3
beta-BHC EPA 8081B
EPA 608.3
Chlordane Total EPA 8081B
EPA 608.3
Chlorobenzilate EPA 8270D
delta-BHC EPA 8081B

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Chlorinated Hydrocarbon Pesticides

delta-BHC	EPA 608.3
Diallate	EPA 8270D
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3

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Chlorinated Hydrocarbon Pesticides

Mirex	EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270D
2-Chloronaphthalene	EPA 625.1 EPA 8270D
Hexachlorobenzene	EPA 625.1 EPA 8270D
Hexachlorobutadiene	EPA 625.1 EPA 8270D
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270D
Hexachloroethane	EPA 625.1 EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

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Chlorophenoxy Acid Pesticides

Dinoseb	EPA 8151A
	EPA 8270D
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D

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Haloethers

Bis(2-chloroethyl)ether EPA 625.1
EPA 8270D

Low Level Polynuclear Aromatics

Acenaphthene Low Level EPA 610
EPA 8270D
Acenaphthylene Low Level EPA 610
EPA 8270D
Anthracene Low Level EPA 610
EPA 8270D
Benzo(a)anthracene Low Level EPA 610
EPA 8270D
Benzo(a)pyrene Low Level EPA 610
EPA 8270D
Benzo(b)fluoranthene Low Level EPA 610
EPA 8270D
Benzo(g,h,i)perylene Low Level EPA 610
EPA 8270D
Benzo(k)fluoranthene Low Level EPA 610
EPA 8270D
Chrysene Low Level EPA 8270D
Dibenzo(a,h)anthracene Low Level EPA 8270D
Fluoranthene Low Level EPA 610
EPA 8270D
Fluorene Low Level EPA 610
EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level EPA 610
EPA 8270D

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Low Level Polynuclear Aromatics

Naphthalene Low Level	EPA 610 EPA 8270D
Phenanthrene Low Level	EPA 610 EPA 8270D
Pyrene Low Level	EPA 610 EPA 8270D

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Cadmium, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Calcium, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Chromium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Copper, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Iron, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010C

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Metals I

Lead, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals II

Aluminum, Total	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 218.6, Rev. 3.3 (1994)
	EPA 7196A
	EPA 7199
	SM 3500-Cr B-2011
Mercury, Low Level	EPA 1631E
Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 7470A
Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A

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Metals II

Vanadium, Total	EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Tin, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Uranium (Mass)	EPA 6020A

Mineral

Alkalinity	SM 2320B-2011
Calcium Hardness	SM 2340B-2011

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Mineral

Chloride	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Hardness, Total	SM 2340C-2011 SM 2340B-2011
Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993) EPA 9056A

Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Color	SM 2120B-2011
Corrosivity	SM 2330-2016
Cyanide, Available	SM 4500-CN G-2016
Cyanide, Total	Kelada-01 SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2014 SM 5310C-2014 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993)

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Miscellaneous

Phenols	EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011
	EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270D
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 625.1
	EPA 8270D
Nitrobenzene	EPA 625.1
	EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 625.1
	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270D
N-Nitrosodiphenylamine	EPA 625.1

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Nitrosoamines

N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993) EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993) EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)

Organophosphate Pesticides

Atrazine	EPA 8270D
Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Famphur	EPA 8270D
Parathion ethyl	EPA 8270D
Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D

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Organophosphate Pesticides

Thionazin EPA 8270D

Petroleum Hydrocarbons

Diesel Range Organics EPA 8015C

Phthalate Esters

Benzyl butyl phthalate EPA 625.1
EPA 8270D

Bis(2-ethylhexyl) phthalate EPA 625.1
EPA 8270D

Diethyl phthalate EPA 625.1
EPA 8270D

Dimethyl phthalate EPA 625.1
EPA 8270D

Di-n-butyl phthalate EPA 625.1
EPA 8270D

Di-n-octyl phthalate EPA 625.1
EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016) EPA 8082A
EPA 608.3

Aroclor 1221 (PCB-1221) EPA 8082A
EPA 608.3

Aroclor 1232 (PCB-1232) EPA 8082A
EPA 608.3

Aroclor 1242 (PCB-1242) EPA 8082A
EPA 608.3

Aroclor 1248 (PCB-1248) EPA 8082A

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2022
Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 625.1
	EPA 8270D
Acenaphthylene	EPA 625.1
	EPA 8270D
Anthracene	EPA 625.1
	EPA 8270D
Benzo(a)anthracene	EPA 625.1
	EPA 8270D
Benzo(a)pyrene	EPA 625.1
	EPA 8270D
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D

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Polynuclear Aromatics

Chrysene	EPA 625.1 EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1 EPA 8270D
Fluoranthene	EPA 625.1 EPA 8270D
Fluorene	EPA 625.1 EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625.1 EPA 8270D
Naphthalene	EPA 625.1 EPA 8270D
Phenanthrene	EPA 625.1 EPA 8270D
Pyrene	EPA 625.1 EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 625.1 EPA 8270D
2,4,6-Trichlorophenol	EPA 625.1 EPA 8270D
2,4-Dichlorophenol	EPA 625.1 EPA 8270D
2,4-Dimethylphenol	EPA 625.1 EPA 8270D
2,4-Dinitrophenol	EPA 625.1

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Priority Pollutant Phenols

2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 625.1
	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270D
2-Methylphenol	EPA 625.1
	EPA 8270D
2-Nitrophenol	EPA 625.1
	EPA 8270D
3-Methylphenol	EPA 625.1
	EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270D
4-Methylphenol	EPA 625.1
	EPA 8270D
4-Nitrophenol	EPA 625.1
	EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625.1
	EPA 8270D
Phenol	EPA 625.1
	EPA 8270D

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015

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Residue

Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 625.1
	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 625.1
	EPA 8270D
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
p-Dimethylaminoazobenzene	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

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Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260C
	EPA 624.1
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
	EPA 624.1
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
	EPA 624.1
Ethyl benzene	EPA 8260C
	EPA 624.1
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
	EPA 624.1
Naphthalene, Volatile	EPA 8260C
	EPA 624.1
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
	EPA 624.1

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Volatile Aromatics

p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
	EPA 624.1
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260C
	EPA 624.1
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C

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Volatile Halocarbons

1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
	EPA 624.1
1,2-Dichloropropane	EPA 8260C
	EPA 624.1
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
	EPA 624.1
Bromoform	EPA 8260C
	EPA 624.1
Bromomethane	EPA 8260C
	EPA 624.1
Carbon tetrachloride	EPA 8260C
	EPA 624.1
Chloroethane	EPA 8260C
	EPA 624.1
Chloroform	EPA 8260C
	EPA 624.1
Chloromethane	EPA 8260C
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260C

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Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
	EPA 624.1
Trichlorofluoromethane	EPA 8260C
	EPA 624.1
Vinyl chloride	EPA 8260C
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260C
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Volatiles Organics

1,4-Dioxane	EPA 8270D EPA 8270D SIM
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C EPA 624.1
Acetone	EPA 8260C EPA 624.1
Acetonitrile	EPA 8260C EPA 624.1
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethyl Acetate	EPA 8260C EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C EPA 8015C
Isopropanol	EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260C

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Volatiles Organics

Tetrahydrofuran	EPA 624.1
Vinyl acetate	EPA 8260C
	EPA 624.1

Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 8270D

Characteristic Testing

Corrosivity (pH)	EPA 9040C
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Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
Diallate	EPA 8270D
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B

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Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
1-Chloronaphthalene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
Pentachlorophenol	EPA 8151A

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Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 8270D
Benzo(a)anthracene Low Level	EPA 8270D
Benzo(a)pyrene Low Level	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 8270D
Fluorene Low Level	EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
Naphthalene Low Level	EPA 8270D
Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 8270D

Metals I

Barium, Total	EPA 6010C
	EPA 6020A
Cadmium, Total	EPA 6010C

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Metals I

Cadmium, Total	EPA 6020A
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
	EPA 6020A
Copper, Total	EPA 6010C
	EPA 6020A
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
	EPA 6020A
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
	EPA 6020A
Nickel, Total	EPA 6010C
	EPA 6020A
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
	EPA 6020A
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6020A

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Metals II

Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6020A
Molybdenum, Total	EPA 6010C
	EPA 6020A
Silica, Dissolved	EPA 6010C
Thallium, Total	EPA 6010C
	EPA 6020A
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C
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Miscellaneous

Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
4-Dimethylaminoazobenzene	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

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Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Organophosphate Pesticides

Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Famphur	EPA 8270D
Parathion ethyl	EPA 8270D
Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D
Thionazin	EPA 8270D

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
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Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(g,h,i)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D

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Polynuclear Aromatic Hydrocarbons

Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
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Semi-Volatile Organics

1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 8270D
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C

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Volatile Aromatics

4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C

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Volatile Halocarbons

1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C

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Volatile Halocarbons

trans-1,3-Dichloropropene	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260C
	EPA 8270D
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Acetonitrile	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propionitrile	EPA 8260C
tert-butyl alcohol	EPA 8260C

Serial No.: 66014

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2022
Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Organics

Tetrahydrofuran	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B
EPA 3050B
EPA 3546
EPA 3060A
EPA 3541



Serial No.: 66014

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8



Serial No.: 66015

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



American Premier Underwriters, Inc.

One East Fourth Street
Cincinnati, Ohio 45202
Telephone (513) 579-6616
Facsimile (513) 579-0108

Michael L. Cioffi
Vice President and
Assistant General Counsel

May 25, 1995

Effective June 1, 1995, I, Mr. Michael Cioffi, Vice President and Assistant General Counsel of American Premier Underwriters, Inc., hereby authorize Mr. John M. Falbo of NES, Inc. to procure samples of the wastewater discharge for analysis pursuant to the wastewater discharge permit granted by the Erie County Department of Environment and Planning on May xx, 1995 (Permit #95-05-E1016). I also authorized Mr. Mark Cambra of NES, Inc. to prepare and submit the monitoring report on my behalf.



Mr. Michael Cioffi
Vice President and Assistant General Counsel
American Premier Underwriters, Inc.

May 26, 1995

Date

APPENDIX C
1Q24 Discharge Report



March 20, 2024
OP-4656

Erie County Department of Environment and Planning
Division of Sewerage Management
Erie County Sewer District #6
260 Lehigh Avenue
Lackawanna, New York 14218

Attn: Laura Surdej
Industrial Wastewater Specialist

Subject: Quarterly Discharge Monitoring Report Submittal
(4th Quarter: October to December 2023)
Union Road Site, 333 Losson Road, Cheektowaga, Erie County, NY
Inactive Hazardous Waste Disposal Site No. 915128

Ref: Authorization to Discharge Under Erie County/Buffalo Pollutant
Discharge Elimination System, Permit Number 19-08-E1016

Dear Ms. Surdej:

As required by Part I, Section B of the referenced permit, Unicorn Management Consultants, LLC (UMC) is submitting the Quarterly Discharge Monitoring Report (4th Quarter: October to December 2023) for the subject site. UMC inadvertently missed the 4th quarter sampling of the Union Road discharge, this was an oversight on our part. Once we realized it, we contacted Buffalo Sewer on February 7 and talked with Mr. Mike Zilagy. He said UMC should sample as soon as possible and submit the results as the 4th quarter sampling. UMC collected the samples on Tuesday, February 13, 2024.

The information required for the Discharge Monitoring Report from the subject site is enclosed as follows:

- A summary of analyses with laboratory data which includes date, time, and method used for each analysis;
- Chain of Custody forms;
- Daily Sampling Activity Sheets;
- Analysis Summary Table;
- Quantity of water discharged to the sanitary sewer for the 4th Quarter 2023;
- Conversion of mg/l to lbs/gal for wastewater discharge mass calculations;
- Map indicating the location of the sampling point (Figure 1);
- Certification from the NYS Department of Health for ALS Group USA Corp. dba ALS Environmental (Formerly Columbia Analytical Services, Inc.); and



- A copy of the certification letter, dated May 25, 1995, from American Premier Underwriters, Inc. which authorizes Unicorn Management Consultants, to collect samples and prepare the monitoring reports for the referenced permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the systems, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you should have any questions or comments, please do not hesitate to call me at 203-205-9000, ext. 13.

Sincerely,
Unicorn Management Consultants, LLC

Michael O'Connor
Manager of Environmental Projects
Union Road Remediation Project

Enclosures

cc: M. Zylagyi
M. Kuzcka (electronic copy only)
M. Hill, Esq. (electronic copy only)
L. Lackner (electronic copy only)



Summary of Sampling Activity

A. Sample Point: Discharge pipe in wet well

B. Date: March 7, 2024

C. Time, temperature, and pH of samples: pH was performed in the laboratory and was 6.95
(Pump started at 0815)

First Sample:	0830	50.0 °F
Second Sample:	0845	51.0 °F
Third Sample:	0900	51.0 °F
Fourth Sample:	0915	49.0 °F

(Pump stopped at 0920)

Total run time: 65-Minutes

D. Total water consumption during sampling period:
Meter reading at start: 172,373-gallons
Meter reading at stop: 173,601-gallons

Flow for the 65-minutes is 1,228 gallons.

E. Physical observations (sight, smell, etc.) of the discharge during sample effort: Water is clear and odorless throughout the sampling effort.

F. Weather conditions during entire sampling period: Sunny, ~37 °F

G. Miscellaneous notes: Water level in sump dropped below the low-level shut-off at 0915.

H. UMC Field tech: Rigby Michaelsen and Ryan Siegel



March 7, 2024

DATE	Composite TIME	Ave. Temp °F	ANALYTES			PHENOLS	LEAD	FLOW
			Average pH	TSS	Total Extractable Hydrocarbons			
BSA LIMITS			5 TO 12	250 mg/L	100 mg/L	20 mg/L	65 mg/L	
						0.25 LBS	0.83 LBS	NONE
3/7/2024	0920	50	7.07	ND	ND U	ND U	ND U	1,547
MASS FOR SAMPLE VOLUME						0.000	0.000	

MASS is reported in pounds
concentrations are reported in mg/L

FLOW is reported in gallons

ND = analyte was not detected

NOTE: If analyte was not detected, the detection limit was used to calculate mass loading (reported in pounds)

Detection Limits Total Suspended Solids =	1.00	mg/L
Total Extractable Hydrocarbons =	4.80	mg/L
Total Phenols =	0.005	mg/L
Total Lead =	0.005	mg/L



2024 Discharge Summary

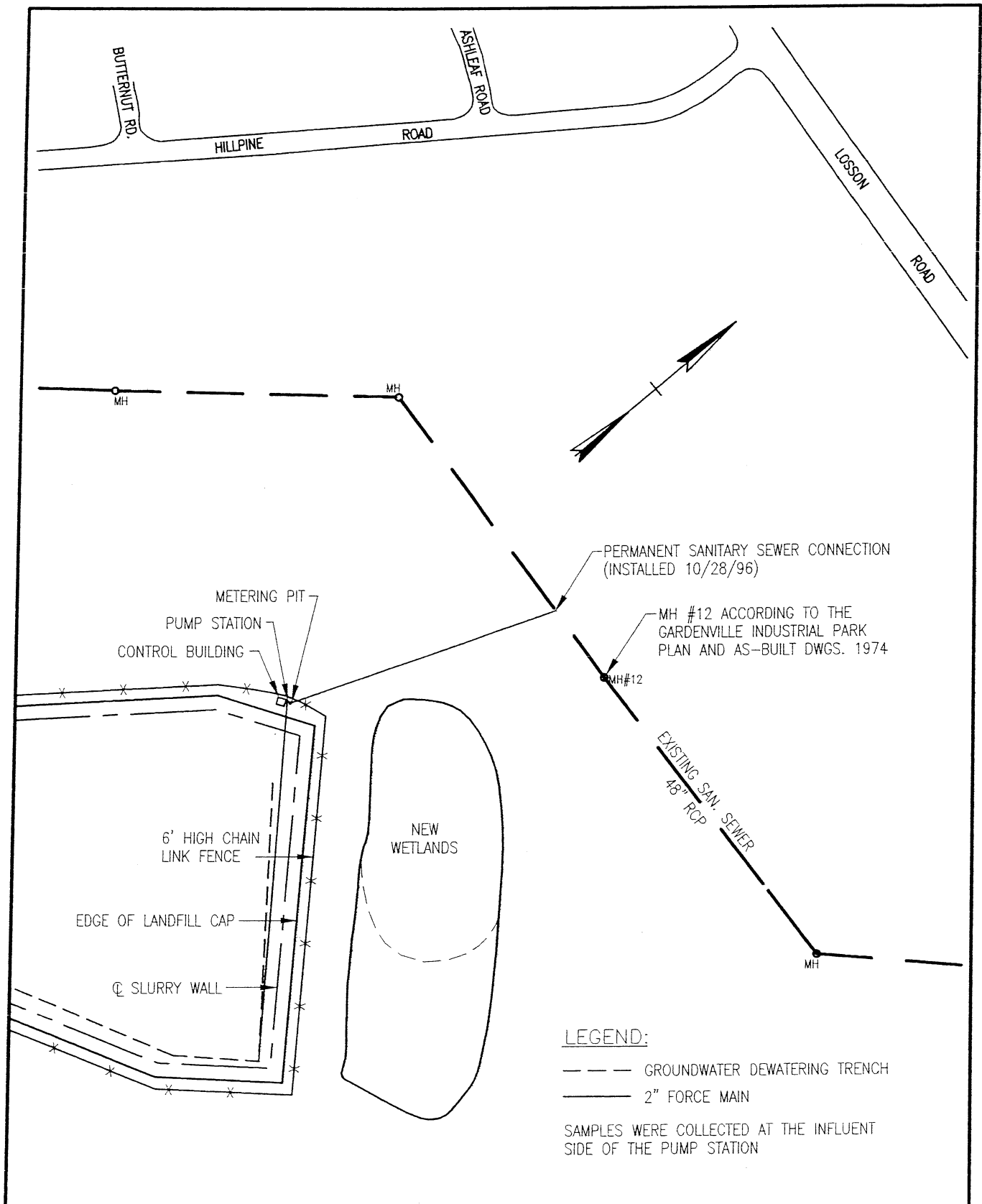
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q23	3/7/2024	173,601	7,643
		Yearly Total Gallons	7,643




Conversion Formula

Conversion of mg/L to lbs/gal for Wastewater Discharge:

$$\frac{1mg}{L} * \frac{1g}{1000mg} * \frac{1Kg}{1000g} * \frac{2.205lbs}{1Kg} * \frac{3.78L}{1gal} = \frac{1lb}{119.977gal}$$



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2045-100	
NO.	DATE				FILENAME: 2045100E	SCALE: 1"=200'
		DRAWING	LANDFILL DEWATERING LOCATION		DATE: 11/20/01	BY: AD
					FIGURE # 1	CK:



March 19, 2024

Service Request No:R2401870

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory March 07, 2024
For your reference, these analyses have been assigned our service request number **R2401870**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2401870
Date Received: 03/07/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 03/07/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 03/19/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 1Q24 Effluent			Lab ID: R2401870-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
pH	7.07				pH Units	SM 4500-H+ B
Temperature of pH Analysis	20.5455				deg C	SM 4500-H+ B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2401870

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2401870-001	1Q24 Effluent	3/7/2024	0920

[illegible]



Cooler Receipt and Preservation Check Form

R2401870

5

Unicorn Management Consultants
Union RdProject/Client Unicorn Folder Number _____Cooler received on 3/7/24 by SESCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 3/7/24 Time: 1114 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.4</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMD by SES on 3/7/24 at 1116
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/7/24 Time: 1252 by: RR

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 10. Did all bottle labels and tags agree with custody papers? YES NO
 11. Were correct containers used for the tests indicated? YES NO
 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
 13. Were dissolved metals filtered in the field? YES NO N/A
 14. Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample-ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes No						
>12		NaOH							
<2	<u>213623</u>	HNO ₃	<u>✓</u>	<u>24002372</u>	<u>5/25</u>				
<2	<u>"</u>	H ₂ SO ₄	<u>✓</u>	<u>22200059</u>	<u>5/25</u>				
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -						
		HCl	** **						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2401870

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 4500-H+ B	Water	Temperature of pH Analysis
SM 4500-H+ B	Water	pH

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2401870

Sample Name: 1Q24 Effluent
Lab Code: R2401870-001
Sample Matrix: Water

Date Collected: 03/7/24
Date Received: 03/7/24

Analysis Method

1664B
420.4
6010C
SM 2540 D-2015
SM 4500-H+ B

Extracted/Digested By

CDISTEFANO

Analyzed By

CCAMPBELL
BBOWE
MMCMAHON
HCASTROVINCI
SBIRNBERG



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

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www.alsglobal.com



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 1Q24 Effluent
Lab Code: R2401870-001

Service Request: R2401870
Date Collected: 03/07/24 09:20
Date Received: 03/07/24 11:06
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	03/12/24 17:47	03/11/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	03/12/24 17:47	03/11/24	



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 1Q24 Effluent
Lab Code: R2401870-001

Service Request: R2401870
Date Collected: 03/07/24 09:20
Date Received: 03/07/24 11:06
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.7	1	03/15/24 10:00	
pH	SM 4500-H+ B	7.07	pH Units	-	1	03/07/24 15:49	H
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	03/11/24 13:25	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	03/12/24 10:20	
Temperature of pH Analysis	SM 4500-H+ B	20.5455	deg C	-	1	03/07/24 15:49	H



QC Summary Forms

ALS Environmental—Rochester Laboratory

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www.alsglobal.com



Metals

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2401870-MB

Service Request: R2401870
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	03/12/24 16:59	03/11/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	03/12/24 16:59	03/11/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2401870
Date Analyzed: 03/12/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401870-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	0.0367	0.040	92	80-120
Lead, Total	6010C	0.495	0.500	99	80-120



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401870-MB

Service Request: R2401870
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.3	1	03/15/24 10:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	03/11/24 11:42	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	03/12/24 10:20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2401870
Date Analyzed: 03/11/24 - 03/12/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401870-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0364	0.0400	91	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	190	214	89	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2401870
Date Analyzed: 03/15/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2401870-LCS1		R2401870-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	40.2	41.7	96	38.6	42.6	91	78-114	4	18

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Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Dissolved Gases

Acetylene RSK-175

Ethane RSK-175

Ethene (Ethylene) RSK-175

Methane RSK-175

Propane RSK-175

Fuel Additives

Methyl tert-butyl ether EPA 524.2

Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4

Barium, Total EPA 200.8 Rev. 5.4

Cadmium, Total EPA 200.8 Rev. 5.4

Chromium, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Copper, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Iron, Total EPA 200.7 Rev. 4.4

Lead, Total EPA 200.8 Rev. 5.4

Manganese, Total EPA 200.7 Rev. 4.4

Metals I

Manganese, Total EPA 200.8 Rev. 5.4

Mercury, Total EPA 245.1 Rev. 3.0

Selenium, Total EPA 200.8 Rev. 5.4

Silver, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Zinc, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total EPA 200.7 Rev. 4.4

Antimony, Total EPA 200.8 Rev. 5.4

Beryllium, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Molybdenum, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Nickel, Total EPA 200.8 Rev. 5.4

Thallium, Total EPA 200.8 Rev. 5.4

Vanadium, Total EPA 200.7 Rev. 4.4

Metals III

Boron, Total EPA 200.7 Rev. 4.4

Calcium, Total EPA 200.7 Rev. 4.4

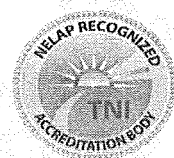
Magnesium, Total EPA 200.7 Rev. 4.4

Potassium, Total EPA 200.7 Rev. 4.4

Sodium, Total EPA 200.7 Rev. 4.4

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Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Dissolved	SM 21-23 5310C (-00)
Organic Carbon, Total	SM 21-23 5310B (-00)
	SM 21-23 5310C (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2
	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2

Trihalomethanes

Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2

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Volatile Aromatics

tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2

Volatile Halocarbons

Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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Acrylates

Acrolein (Propenal)	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 625.1
	EPA 8270D
Carbazole	EPA 625.1
	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D

Amines

Pronamide	EPA 8270D
Propionitrile	EPA 8260C
Pyridine	EPA 625.1
	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 625.1
	EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

beta-BHC	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270D
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbon Pesticides

Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270D
2-Chloronaphthalene	EPA 625.1
	EPA 8270D
Hexachlorobenzene	EPA 625.1
	EPA 8270D
Hexachlorobutadiene	EPA 625.1
	EPA 8270D
Hexachlorocyclopentadiene	EPA 625.1

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Chlorinated Hydrocarbons

Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 625.1
	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A
	EPA 8270D
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Dissolved Gases

Acetylene	RSK-175
Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270D

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 610
	EPA 8270D
Acenaphthylene Low Level	EPA 610

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Low Level Polynuclear Aromatics

Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 610
	EPA 8270D
Benzo(a)anthracene Low Level	EPA 610
	EPA 8270D
Benzo(a)pyrene Low Level	EPA 610
	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 610
	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 610
	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 610
	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 610
	EPA 8270D
Fluorene Low Level	EPA 610
	EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level	EPA 610
	EPA 8270D
Naphthalene Low Level	EPA 610
	EPA 8270D
Phenanthrene Low Level	EPA 610

Low Level Polynuclear Aromatics

Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 610
	EPA 8270D

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals I		Metals II	
Lead, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Aluminum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A	Antimony, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Manganese, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Arsenic, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Nickel, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Beryllium, Total	EPA 200.8, Rev. 5.4 (1994) EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Potassium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Chromium VI	EPA 200.8, Rev. 5.4 (1994) EPA 218.6, Rev. 3.3 (1994) EPA 7196A EPA 7199 SM 3500-Cr B-2011
Silver, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Mercury, Low Level	EPA 1631E
Sodium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A	Mercury, Total	EPA 245.1, Rev. 3.0 (1994) EPA 7470A
Strontium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C	Selenium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C

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Metals II		Metals III	
Selenium, Total	EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Tin, Total	EPA 6010C
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Titanium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Uranium (Mass)	EPA 6020A
Metals III		Mineral	
Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Alkalinity	SM 2320B-2011
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Calcium Hardness	SM 2340B-2011
Thallium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)	Chloride	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Tin, Total	EPA 200.7, Rev. 4.4 (1994)	Fluoride, Total	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
		Hardness, Total	SM 2340C-2011 SM 2340B-2011
		Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
		Miscellaneous	
		Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
		Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
		Color	SM 2120B-2011
		Corrosivity	SM 2330-2016
		Cyanide, Available	SM 4500-CN G-2016
		Cyanide, Total	Kelada-01

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**NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
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Miscellaneous

Cyanide, Total	SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2011 SM 5310C-2011 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993) EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011 EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 625.1 EPA 8270D
2,6-Dinitrotoluene	EPA 625.1 EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D

Nitroaromatics and Isophorone

Isophorone	EPA 625.1 EPA 8270D
Nitrobenzene	EPA 625.1 EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 625.1 EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625.1 EPA 8270D
N-Nitrosodiphenylamine	EPA 625.1 EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993) EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)

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Nutrient		Phthalate Esters	
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)	Diethyl phthalate	EPA 8270D
	EPA 300.0, Rev. 2.1 (1993)	Dimethyl phthalate	EPA 625.1
	EPA 9056A		EPA 8270D
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)	Di-n-butyl phthalate	EPA 625.1
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)		EPA 8270D
Organophosphate Pesticides		Di-n-octyl phthalate	EPA 625.1
			EPA 8270D
Atrazine	EPA 8270D	Polychlorinated Biphenyls	
Dimethoate	EPA 8270D	Aroclor 1016 (PCB-1016)	EPA 8082A
Disulfoton	EPA 8270D		EPA 608.3
Famphur	EPA 8270D	Aroclor 1221 (PCB-1221)	EPA 8082A
Parathion ethyl	EPA 8270D		EPA 608.3
Parathion methyl	EPA 8270D	Aroclor 1232 (PCB-1232)	EPA 8082A
Phorate	EPA 8270D		EPA 608.3
Sulfotepp	EPA 8270D	Aroclor 1242 (PCB-1242)	EPA 8082A
Thionazin	EPA 8270D		EPA 608.3
Petroleum Hydrocarbons		Aroclor 1248 (PCB-1248)	EPA 8082A
Diesel Range Organics	EPA 8015C		EPA 608.3
Phthalate Esters		Aroclor 1254 (PCB-1254)	EPA 8082A
Benzyl butyl phthalate	EPA 625.1		EPA 608.3
	EPA 8270D	Aroclor 1260 (PCB-1260)	EPA 8082A
Bis(2-ethylhexyl) phthalate	EPA 625.1		EPA 608.3
	EPA 8270D	Aroclor 1262 (PCB-1262)	EPA 8082A
Diethyl phthalate	EPA 625.1	Aroclor 1268 (PCB-1268)	EPA 8082A

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Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 625.1
	EPA 8270D
Acenaphthylene	EPA 625.1
	EPA 8270D
Anthracene	EPA 625.1
	EPA 8270D
Benzo(a)anthracene	EPA 625.1
	EPA 8270D
Benzo(a)pyrene	EPA 625.1
	EPA 8270D
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D
Chrysene	EPA 625.1
	EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270D
Fluoranthene	EPA 625.1

Polynuclear Aromatics

Fluoranthene	EPA 8270D
Fluorene	EPA 625.1
	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D
Naphthalene	EPA 625.1
	EPA 8270D
Phenanthrene	EPA 625.1
	EPA 8270D
Pyrene	EPA 625.1
	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D
2,4-Dichlorophenol	EPA 625.1
	EPA 8270D
2,4-Dimethylphenol	EPA 625.1
	EPA 8270D
2,4-Dinitrophenol	EPA 625.1
	EPA 8270D
2,6-Dichlorophenol	EPA 8270D

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Priority Pollutant Phenols

2-Chlorophenol	EPA 625.1 EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625.1 EPA 8270D
2-Methylphenol	EPA 625.1 EPA 8270D
2-Nitrophenol	EPA 625.1 EPA 8270D
3-Methylphenol	EPA 625.1 EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1 EPA 8270D
4-Methylphenol	EPA 625.1 EPA 8270D
4-Nitrophenol	EPA 625.1 EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625.1 EPA 8270D
Phenol	EPA 625.1 EPA 8270D

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015

Residue

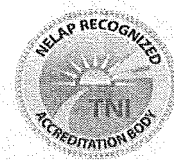
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 625.1 EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 625.1 EPA 8270D
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate	EPA 8270D
p-Dimethylaminoazobenzene	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260C
	EPA 624.1
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
	EPA 624.1
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
	EPA 624.1
Ethyl benzene	EPA 8260C
	EPA 624.1
Isopropylbenzene	EPA 8260C

Volatile Aromatics

m/p-Xylenes	EPA 8260C
	EPA 624.1
Naphthalene, Volatile	EPA 8260C
	EPA 624.1
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
	EPA 624.1
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C

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Volatile Halocarbons

1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 624.1
1,1,2-Trichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260C
	EPA 624.1
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
	EPA 624.1
1,2-Dichloropropane	EPA 8260C
	EPA 624.1
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C

Volatile Halocarbons

Bromodichloromethane	EPA 624.1
Bromoform	EPA 8260C
	EPA 624.1
Bromomethane	EPA 8260C
	EPA 624.1
Carbon tetrachloride	EPA 8260C
	EPA 624.1
Chloroethane	EPA 8260C
	EPA 624.1
Chloroform	EPA 8260C
	EPA 624.1
Chloromethane	EPA 8260C
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260C
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C

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Volatile Halocarbons

Methylene chloride	EPA 8260C EPA 624.1
Tetrachloroethene	EPA 8260C EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C EPA 624.1
trans-1,3-Dichloropropene	EPA 8260C EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C EPA 624.1
Trichlorofluoromethane	EPA 8260C EPA 624.1
Vinyl chloride	EPA 8260C EPA 624.1

Volatiles Organics

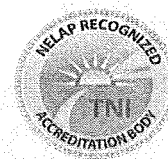
1,4-Dioxane	EPA 8260C EPA 8270D EPA 8270D SIM
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C EPA 624.1

Volatiles Organics

Acetone	EPA 8260C EPA 624.1
Acetonitrile	EPA 8260C EPA 624.1
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethyl Acetate	EPA 8260C EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C EPA 8015C
Isopropanol	EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260C EPA 624.1
Vinyl acetate	EPA 8260C EPA 624.1

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Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Characteristic Testing

Corrosivity (pH)	EPA 9040C
	EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Amines

1,2-Diphenylhydrazine	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D

Chlorinated Hydrocarbon Pesticides

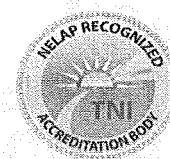
4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
Diallate	EPA 8270D
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 8270D

Serial No.: 64295

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
1-Chloronaphthalene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
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Chlorophenoxy Acid Pesticides

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
Pentachlorophenol	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 8270D
Benzo(a)anthracene Low Level	EPA 8270D
Benzo(a)pyrene Low Level	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 8270D
Fluorene Low Level	EPA 8270D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Low Level Polynuclear Aromatic Hydrocarbons

Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
Naphthalene Low Level	EPA 8270D
Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 8270D

Metals I

Barium, Total	EPA 6010C
	EPA 6020A
Cadmium, Total	EPA 6010C
	EPA 6020A
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
	EPA 6020A
Copper, Total	EPA 6010C
	EPA 6020A
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
	EPA 6020A
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
	EPA 6020A
Nickel, Total	EPA 6010C
	EPA 6020A
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C

Metals I

Silver, Total	EPA 6020A
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6020A
Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6020A
Molybdenum, Total	EPA 6010C

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Metals III

Molybdenum, Total	EPA 6020A
Silica, Dissolved	EPA 6010C
Thallium, Total	EPA 6010C
	EPA 6020A
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C
Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D

Nitroaromatics and Isophorone

4-Dimethylaminoazobenzene	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Organophosphate Pesticides

Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Famphur	EPA 8270D
Parathion ethyl	EPA 8270D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Organophosphate Pesticides

Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D
Thionazin	EPA 8270D

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
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Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A

Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(g,h,i)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D

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Polynuclear Aromatic Hydrocarbons

Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 8270D
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Aromatics

1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C

Volatile Halocarbons

1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260C
	EPA 8270D
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Acetonitrile	EPA 8260C

Volatile Organics

Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propionitrile	EPA 8260C
tert-butyl alcohol	EPA 8260C
Tetrahydrofuran	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B
EPA 3050B
EPA 3546
EPA 3060A
EPA 3541

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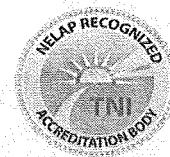
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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8

Serial No.: 64296

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Fuel Additives

Methyl tert-butyl ether EPA 524.2

Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4

Barium, Total EPA 200.8 Rev. 5.4

Cadmium, Total EPA 200.8 Rev. 5.4

Chromium, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Copper, Total EPA 200.8 Rev. 5.4

Iron, Total EPA 200.7 Rev. 4.4

Lead, Total EPA 200.8 Rev. 5.4

Manganese, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Mercury, Total EPA 245.1 Rev. 3.0

Selenium, Total EPA 200.8 Rev. 5.4

Silver, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Zinc, Total EPA 200.7 Rev. 4.4

EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total EPA 200.7 Rev. 4.4

Antimony, Total EPA 200.8 Rev. 5.4

Serial No.: 66012

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Metals II

Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Total	SM 21-23 5310B (-00)
	SM 21-23 5310C (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2

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WADSWORTH CENTER



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Issued April 01, 2022
Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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Non-Metals

Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2

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Volatile Aromatics

Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2

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Volatile Halocarbons

Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2



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Acrylates

Acrolein (Propenal)	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 625.1
	EPA 8270D
Carbazole	EPA 625.1
	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D
Propionitrile	EPA 8260C
Pyridine	EPA 625.1

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Amines

Pyridine EPA 8270D

Benzidines

3,3'-Dichlorobenzidine EPA 625.1
EPA 8270D
3,3'-Dimethylbenzidine EPA 8270D
Benzidine EPA 625.1
EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD EPA 8081B
EPA 608.3
4,4'-DDE EPA 8081B
EPA 608.3
4,4'-DDT EPA 8081B
EPA 608.3
Aldrin EPA 8081B
EPA 608.3
alpha-BHC EPA 8081B
EPA 608.3
alpha-Chlordane EPA 8081B
EPA 608.3
beta-BHC EPA 8081B
EPA 608.3
Chlordane Total EPA 8081B
EPA 608.3
Chlorobenzilate EPA 8270D
delta-BHC EPA 8081B

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Chlorinated Hydrocarbon Pesticides

delta-BHC	EPA 608.3
Diallate	EPA 8270D
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3

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Chlorinated Hydrocarbon Pesticides

Mirex	EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270D
2-Chloronaphthalene	EPA 625.1 EPA 8270D
Hexachlorobenzene	EPA 625.1 EPA 8270D
Hexachlorobutadiene	EPA 625.1 EPA 8270D
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270D
Hexachloroethane	EPA 625.1 EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

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Chlorophenoxy Acid Pesticides

Dinoseb	EPA 8151A
	EPA 8270D
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D

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Haloethers

Bis(2-chloroethyl)ether EPA 625.1
EPA 8270D

Low Level Polynuclear Aromatics

Acenaphthene Low Level EPA 610
EPA 8270D
Acenaphthylene Low Level EPA 610
EPA 8270D
Anthracene Low Level EPA 610
EPA 8270D
Benzo(a)anthracene Low Level EPA 610
EPA 8270D
Benzo(a)pyrene Low Level EPA 610
EPA 8270D
Benzo(b)fluoranthene Low Level EPA 610
EPA 8270D
Benzo(g,h,i)perylene Low Level EPA 610
EPA 8270D
Benzo(k)fluoranthene Low Level EPA 610
EPA 8270D
Chrysene Low Level EPA 8270D
Dibenzo(a,h)anthracene Low Level EPA 8270D
Fluoranthene Low Level EPA 610
EPA 8270D
Fluorene Low Level EPA 610
EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level EPA 610
EPA 8270D

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Low Level Polynuclear Aromatics

Naphthalene Low Level	EPA 610 EPA 8270D
Phenanthrene Low Level	EPA 610 EPA 8270D
Pyrene Low Level	EPA 610 EPA 8270D

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Chromium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6020A EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C

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Metals I

Lead, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals II

Aluminum, Total	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 218.6, Rev. 3.3 (1994)
	EPA 7196A
	EPA 7199
	SM 3500-Cr B-2011
Mercury, Low Level	EPA 1631E
Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 7470A
Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A

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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Metals II

Vanadium, Total	EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6020A
	EPA 200.8, Rev. 5.4 (1994)
Tin, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Uranium (Mass)	EPA 6020A

Mineral

Alkalinity	SM 2320B-2011
Calcium Hardness	SM 2340B-2011

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Mineral

Chloride	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Hardness, Total	SM 2340C-2011 SM 2340B-2011
Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993) EPA 9056A

Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C
Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Color	SM 2120B-2011
Corrosivity	SM 2330-2016
Cyanide, Available	SM 4500-CN G-2016
Cyanide, Total	Kelada-01 SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2014 SM 5310C-2014 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993)

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Miscellaneous

Phenols	EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011
	EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270D
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 625.1
	EPA 8270D
Nitrobenzene	EPA 625.1
	EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 625.1
	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270D
N-Nitrosodiphenylamine	EPA 625.1

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Nitrosoamines

N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993) EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993) EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)

Organophosphate Pesticides

Atrazine	EPA 8270D
Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Famphur	EPA 8270D
Parathion ethyl	EPA 8270D
Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D

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Organophosphate Pesticides

Thionazin EPA 8270D

Petroleum Hydrocarbons

Diesel Range Organics EPA 8015C

Phthalate Esters

Benzyl butyl phthalate EPA 625.1
EPA 8270D

Bis(2-ethylhexyl) phthalate EPA 625.1
EPA 8270D

Diethyl phthalate EPA 625.1
EPA 8270D

Dimethyl phthalate EPA 625.1
EPA 8270D

Di-n-butyl phthalate EPA 625.1
EPA 8270D

Di-n-octyl phthalate EPA 625.1
EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016) EPA 8082A
EPA 608.3

Aroclor 1221 (PCB-1221) EPA 8082A
EPA 608.3

Aroclor 1232 (PCB-1232) EPA 8082A
EPA 608.3

Aroclor 1242 (PCB-1242) EPA 8082A
EPA 608.3

Aroclor 1248 (PCB-1248) EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 625.1
	EPA 8270D
Acenaphthylene	EPA 625.1
	EPA 8270D
Anthracene	EPA 625.1
	EPA 8270D
Benzo(a)anthracene	EPA 625.1
	EPA 8270D
Benzo(a)pyrene	EPA 625.1
	EPA 8270D
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D

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Polynuclear Aromatics

Chrysene	EPA 625.1 EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1 EPA 8270D
Fluoranthene	EPA 625.1 EPA 8270D
Fluorene	EPA 625.1 EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625.1 EPA 8270D
Naphthalene	EPA 625.1 EPA 8270D
Phenanthrene	EPA 625.1 EPA 8270D
Pyrene	EPA 625.1 EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 625.1 EPA 8270D
2,4,6-Trichlorophenol	EPA 625.1 EPA 8270D
2,4-Dichlorophenol	EPA 625.1 EPA 8270D
2,4-Dimethylphenol	EPA 625.1 EPA 8270D
2,4-Dinitrophenol	EPA 625.1

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Priority Pollutant Phenols

2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 625.1
	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270D
2-Methylphenol	EPA 625.1
	EPA 8270D
2-Nitrophenol	EPA 625.1
	EPA 8270D
3-Methylphenol	EPA 625.1
	EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270D
4-Methylphenol	EPA 625.1
	EPA 8270D
4-Nitrophenol	EPA 625.1
	EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625.1
	EPA 8270D
Phenol	EPA 625.1
	EPA 8270D

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015

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Residue

Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 625.1
	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 625.1
	EPA 8270D
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
p-Dimethylaminoazobenzene	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

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Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260C
	EPA 624.1
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
	EPA 624.1
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
	EPA 624.1
Ethyl benzene	EPA 8260C
	EPA 624.1
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
	EPA 624.1
Naphthalene, Volatile	EPA 8260C
	EPA 624.1
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
	EPA 624.1

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Volatile Aromatics

p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
	EPA 624.1
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260C
	EPA 624.1
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C

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Volatile Halocarbons

1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
	EPA 624.1
1,2-Dichloropropane	EPA 8260C
	EPA 624.1
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
	EPA 624.1
Bromoform	EPA 8260C
	EPA 624.1
Bromomethane	EPA 8260C
	EPA 624.1
Carbon tetrachloride	EPA 8260C
	EPA 624.1
Chloroethane	EPA 8260C
	EPA 624.1
Chloroform	EPA 8260C
	EPA 624.1
Chloromethane	EPA 8260C
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260C

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Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260C
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
	EPA 624.1
Trichlorofluoromethane	EPA 8260C
	EPA 624.1
Vinyl chloride	EPA 8260C
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260C
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Volatiles Organics

1,4-Dioxane	EPA 8270D EPA 8270D SIM
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C EPA 624.1
Acetone	EPA 8260C EPA 624.1
Acetonitrile	EPA 8260C EPA 624.1
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethyl Acetate	EPA 8260C EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C EPA 8015C
Isopropanol	EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260C

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Volatiles Organics

Tetrahydrofuran	EPA 624.1
Vinyl acetate	EPA 8260C
	EPA 624.1

Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Ethyl methacrylate	EPA 8260C
Methyl acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
1,4-Phenylenediamine	EPA 8270D
1-Naphthylamine	EPA 8270D
2-Naphthylamine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
5-Nitro-o-toluidine	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D
Methapyrilene	EPA 8270D
Pronamide	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
3,3'-Dimethylbenzidine	EPA 8270D
Benzidine	EPA 8270D

Characteristic Testing

Corrosivity (pH)	EPA 9040C
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Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
delta-BHC	EPA 8081B
Diallate	EPA 8270D
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

Isodrin	EPA 8270D
Kepone	EPA 8270D
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
1-Chloronaphthalene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Hexachloropropene	EPA 8270D
Pentachlorobenzene	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
Pentachlorophenol	EPA 8151A

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Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
Acenaphthylene Low Level	EPA 8270D
Anthracene Low Level	EPA 8270D
Benzo(a)anthracene Low Level	EPA 8270D
Benzo(a)pyrene Low Level	EPA 8270D
Benzo(b)fluoranthene Low Level	EPA 8270D
Benzo(g,h,i)perylene Low Level	EPA 8270D
Benzo(k)fluoranthene Low Level	EPA 8270D
Chrysene Low Level	EPA 8270D
Dibenzo(a,h)anthracene Low Level	EPA 8270D
Fluoranthene Low Level	EPA 8270D
Fluorene Low Level	EPA 8270D
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
Naphthalene Low Level	EPA 8270D
Phenanthrene Low Level	EPA 8270D
Pyrene Low Level	EPA 8270D

Metals I

Barium, Total	EPA 6010C
	EPA 6020A
Cadmium, Total	EPA 6010C

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Metals I

Cadmium, Total	EPA 6020A
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
	EPA 6020A
Copper, Total	EPA 6010C
	EPA 6020A
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
	EPA 6020A
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
	EPA 6020A
Nickel, Total	EPA 6010C
	EPA 6020A
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
	EPA 6020A
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6020A

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Metals II

Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6020A
Molybdenum, Total	EPA 6010C
	EPA 6020A
Silica, Dissolved	EPA 6010C
Thallium, Total	EPA 6010C
	EPA 6020A
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C
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Miscellaneous

Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D
1,4-Naphthoquinone	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
4-Dimethylaminoazobenzene	EPA 8270D
4-Nitroquinoline-1-oxide	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-butylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
N-nitrosomethylethylamine	EPA 8270D
N-nitrosomorpholine	EPA 8270D
N-nitrosopiperidine	EPA 8270D
N-Nitrosopyrrolidine	EPA 8270D

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Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Organophosphate Pesticides

Dimethoate	EPA 8270D
Disulfoton	EPA 8270D
Famphur	EPA 8270D
Parathion ethyl	EPA 8270D
Parathion methyl	EPA 8270D
Phorate	EPA 8270D
Sulfotepp	EPA 8270D
Thionazin	EPA 8270D

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
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Phthalate Esters

Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D
3-Methylcholanthrene	EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(g,h,i)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D

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MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Polynuclear Aromatic Hydrocarbons

Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
---------------	-----------

Serial No.: 66014

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2022
Revised March 30, 2023

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Semi-Volatile Organics

1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
2-Picoline	EPA 8270D
4-Amino biphenyl	EPA 8270D
Acetophenone	EPA 8270D
Aramite	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D
Ethyl methanesulfonate	EPA 8270D
Isosafrole	EPA 8270D
Methyl methanesulfonate	EPA 8270D
O,O,O-Triethyl phosphorothioate	EPA 8270D
Phenacetin	EPA 8270D
Safrole	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C

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Volatile Aromatics

4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C

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Volatile Halocarbons

1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C



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Volatile Halocarbons

trans-1,3-Dichloropropene	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260C
	EPA 8270D
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
2-Nitropropane	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Acetonitrile	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Di-ethyl ether	EPA 8260C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
n-Butanol	EPA 8260C
o-Toluidine	EPA 8270D
Propionitrile	EPA 8260C
tert-butyl alcohol	EPA 8260C

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Volatile Organics

Tetrahydrofuran	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B
EPA 3050B
EPA 3546
EPA 3060A
EPA 3541



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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8



Serial No.: 66015

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American Premier Underwriters, Inc.

One East Fourth Street
Cincinnati, Ohio 45202
Telephone (513) 579-6616
Facsimile (513) 579-0108

Michael L. Cioffi
Vice President and
Assistant General Counsel

May 25, 1995

Effective June 1, 1995, I, Mr. Michael Cioffi, Vice President and Assistant General Counsel of American Premier Underwriters, Inc., hereby authorize Mr. John M. Falbo of NES, Inc. to procure samples of the wastewater discharge for analysis pursuant to the wastewater discharge permit granted by the Erie County Department of Environment and Planning on May xx, 1995 (Permit #95-05-E1016). I also authorized Mr. Mark Cambra of NES, Inc. to prepare and submit the monitoring report on my behalf.



Mr. Michael Cioffi
Vice President and Assistant General Counsel
American Premier Underwriters, Inc.

May 26, 1995

Date

APPENDIX C
2Q24 Discharge Report



July 1, 2024
OP-4682

Erie County Department of Environment and Planning
Division of Sewerage Management
Erie County Sewer District #6
260 Lehigh Avenue
Lackawanna, New York 14218

Attn: Laura Surdej
Industrial Wastewater Specialist

Subject: Quarterly Discharge Monitoring Report Submittal
(2nd Quarter: April to June 2024)
Union Road Site, 333 Losson Road, Cheektowaga, Erie County, NY
Inactive Hazardous Waste Disposal Site No. 915128

Ref: Authorization to Discharge Under Erie County/Buffalo Pollutant
Discharge Elimination System, Permit Number 19-08-E1016

Dear Ms. Surdej:

As required by Part I, Section B of the referenced permit, Unicorn Management Consultants, LLC (UMC) is submitting the Quarterly Discharge Monitoring Report (2nd Quarter: April to June 2024) for the subject site.

The information required for the Discharge Monitoring Report from the subject site is enclosed as follows:

- A summary of analyses with laboratory data which includes date, time, and method used for each analysis;
- Chain of Custody forms;
- Daily Sampling Activity Sheets;
- Analysis Summary Table;
- Quantity of water discharged to the sanitary sewer for the 2nd Quarter 2024;
- Conversion of mg/l to lbs/gal for wastewater discharge mass calculations;
- Map indicating the location of the sampling point (Figure 1);
- Certification from the NYS Department of Health for ALS Group USA Corp. dba ALS Environmental (Formerly Columbia Analytical Services, Inc.); and
- A copy of the certification letter, dated May 25, 1995, from American Premier Underwriters, Inc. which authorizes Unicorn Management Consultants, to collect samples and prepare the monitoring reports for the referenced permit.

Ms. Surdej
OP-4682
Page 2



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the systems, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you should have any questions or comments, please do not hesitate to call me at 203-205-9000, ext. 13.

Sincerely,
Unicorn Management Consultants, LLC

Michael O'Connor
Manager of Environmental Projects
Union Road Remediation Project

Enclosures

cc: M. Szilagyi
M. Kuczka (electronic copy only)
M. Hill, Esq. (electronic copy only)
L. Lackner (electronic copy only)



Summary of Sampling Activity

A. Sample Point: Discharge pipe in wet well

B. Date: May 1, 2024

C. Time, temperature, and pH of samples:
(Pump started at 0810)

First Sample:	0825	51.8 °F	7.16 pH
Second Sample:	0840	53.1 °F	7.20 pH
Third Sample:	0855	61.7 °F	7.69 pH
Fourth Sample:	0910	54.0 °F	7.20 pH

(Pump stopped at 0915)

Total run time: 65-Minutes

D. Total water consumption during sampling period:
Meter reading at start: 187,798-gallons
Meter reading at stop: 188,976-gallons

Flow for the 65-minutes is 1,178 gallons.

E. Physical observations (sight, smell, etc.) of the discharge during sample effort: Water is clear and odorless throughout the sampling effort.

F. Weather conditions during entire sampling period: Sunny, ~50 °F

G. Miscellaneous notes: Water level in the sump dropped below the low-level shut-off at 0905. The sump was manually deactivated until 0910 when the fourth sample was taken.

H. UMC Field tech: Rigby Michaelson and Tobias Sisco



**ANALYSIS SUMMARY TABLE
QUARTERLY
DISCHARGE SAMPLING EVENT**

May 1, 2024

DATE	Composite TIME	Ave. Temp °F	ANALYTES					
			Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD	FLOW
BSA LIMITS			5 TO 12	250 mg/L	100 mg/L	20 mg/L 0.25 LBS	65 mg/L 0.83 LBS	NONE
5/1/2024	0915	13	7.31	ND U	ND U	ND U	ND U	1,178
MASS FOR SAMPLE VOLUME						0.000	0.000	

MASS is reported in pounds
concentrations are reported in mg/L

FLOW is reported in gallons

ND = analyte was not detected

NOTE: If analyte was not detected, the detection limit was used to calculate mass loading (reported in pounds)

Detection Limits 1	Total Suspended Solids =	1.00	mg/L
	Total Extractable Hydrocarbons =	4.60	mg/L
	Total Phenols =	0.005	mg/L
	Total Lead =	0.005	mg/L



2024 Discharge Summary

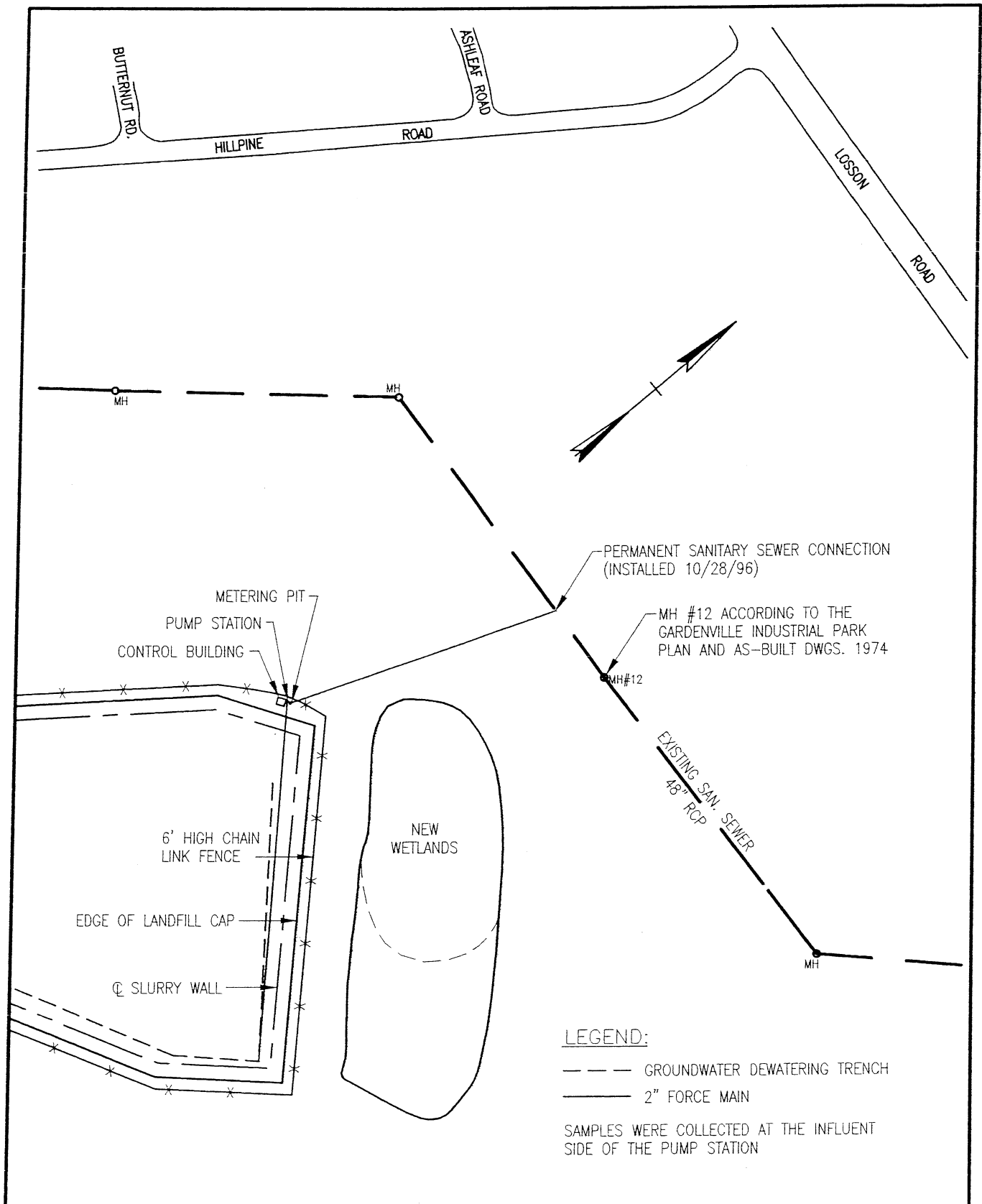
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q24	3/7/2024	173,601	7,643
2Q24	5/1/2024	188,976	15,375
		Yearly Total Gallons	23,018




Conversion Formula

Conversion of mg/L to lbs/gal for Wastewater Discharge:

$$\frac{1mg}{L} * \frac{1g}{1000mg} * \frac{1Kg}{1000g} * \frac{2.205lbs}{1Kg} * \frac{3.78L}{1gal} = \frac{1lb}{119.977gal}$$



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 <div>Unicorn Management Consultants, LLC</div> <div>52 FEDERAL ROAD DANBURY, CT (203) 205-9000</div>	PROJECT # 2045-100	
NO.	DATE				FILENAME: 2045100E	
		DRAWING	LANDFILL DEWATERING LOCATION		SCALE: 1"=200'	DATE: 11/20/01
					BY: AD	CK:
					FIGURE # 1	



May 08, 2024

Service Request No:R2403597

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory May 01, 2024
For your reference, these analyses have been assigned our service request number **R2403597**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2403597
Date Received: 05/01/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 05/01/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 05/08/2024



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2403597

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2403597-001	2Q24 Effluent	5/1/2024	0915

[illegible]



Cooler Receipt and Preservation Check Form

R2403597

Unicorn Management Consultants
Union Rd

5


Project/Client Unicorn Management Folder Number _____

Cooler received on 5/1/24 by: ME COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>	5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N	5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N	7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 5/1/24 Time: 11:51 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>12.9</u>						
Within 0-6°C?	Y <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMD by ME on 5/1/24 at 11:51
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 5/1/24 Time: 12:14 by: SES

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- Were dissolved metals filtered in the field? YES NO N/A
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes	No						
≤2	<u>213623</u>	HNO ₃	<u>✓</u>		<u>24002372</u>	<u>5/25</u>				
≤2	<u>213623</u>	H ₂ SO ₄	<u>✓</u>		<u>24000404</u>	<u>4/26</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 010124-2AES, 061923-1EKP
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2403597

Sample Name: 2Q24 Effluent
Lab Code: R2403597-001
Sample Matrix: Water

Date Collected: 05/1/24
Date Received: 05/1/24

Analysis Method

1664B
420.4
6010C
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

SZOGBY
BBOWE
NMANSEN
HCASTROVINCI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 2Q24 Effluent
Lab Code: R2403597-001

Service Request: R2403597
Date Collected: 05/01/24 09:15
Date Received: 05/01/24 11:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010C	ND U	mg/L	0.0050	1	05/03/24 20:54	05/02/24	



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 2Q24 Effluent
Lab Code: R2403597-001

Service Request: R2403597
Date Collected: 05/01/24 09:15
Date Received: 05/01/24 11:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.6	1	05/03/24 09:30	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	05/06/24 13:22	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	05/02/24 14:15	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2403597-MB

Service Request: R2403597
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010C	ND U	mg/L	0.0050	1	05/03/24 20:06	05/02/24	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2403597

Date Analyzed: 05/03/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L

Basis:NA

Lab Control Sample
R2403597-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	6010C	0.504	0.500	101	80-120



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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2403597-MB

Service Request: R2403597
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.1	1	05/03/24 09:30	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	05/06/24 12:40	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	05/02/24 14:15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2403597
Date Analyzed: 05/02/24 - 05/06/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2403597-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0381	0.0400	95	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	206	214	96	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2403597
Date Analyzed: 05/03/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2403597-LCS1		R2403597-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	33.1	41.5	80	35.2	41.6	85	78-114	6	18

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Dissolved Gases

Acetylene RSK-175
Ethane RSK-175
Ethene (Ethylene) RSK-175
Methane RSK-175
Propane RSK-175

Fuel Additives

Methyl tert-butyl ether EPA 524.2
Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4
Barium, Total EPA 200.8 Rev. 5.4
Cadmium, Total EPA 200.8 Rev. 5.4
Chromium, Total EPA 200.7 Rev. 4.4
Copper, Total EPA 200.8 Rev. 5.4
Iron, Total EPA 200.7 Rev. 4.4
Lead, Total EPA 200.8 Rev. 5.4
Manganese, Total EPA 200.7 Rev. 4.4
Mercury, Total EPA 245.1 Rev. 3.0
Selenium, Total EPA 200.8 Rev. 5.4
Silver, Total EPA 200.7 Rev. 4.4

Serial No.: 68402

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Metals I

Silver, Total	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Total	SM 21-23 5310B (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
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Non-Metals

Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2
	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2

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Volatile Aromatics

1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2

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All approved analytes are listed below:*

Volatile Halocarbons

1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2



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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260D
	EPA 8260C
Methyl acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
	EPA 8270E
1,4-Phenylenediamine	EPA 8270D
	EPA 8270E
1-Naphthylamine	EPA 8270D
	EPA 8270E
2-Naphthylamine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D

Serial No.: 68403

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All approved analytes are listed below:*

Amines

4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E
5-Nitro-o-toluidine	EPA 8270D
	EPA 8270E
Aniline	EPA 625.1
	EPA 8270D
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270D
	EPA 8270E
Diphenylamine	EPA 8270D
	EPA 8270E
Methapyrilene	EPA 8270D
	EPA 8270E
Pronamide	EPA 8270D
	EPA 8270E
Propionitrile	EPA 8260D
	EPA 8260C
Pyridine	EPA 625.1
	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270D
	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270D
	EPA 8270E

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Benzidines

Benzidine	EPA 625.1
	EPA 8270D
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270D
	EPA 8270E
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270D
	EPA 8270E
Dieldrin	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
	EPA 8270E
Kepone	EPA 8270D
	EPA 8270E
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

PCNB	EPA 8270D EPA 8270E
Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270D EPA 8270E
2-Chloronaphthalene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorobenzene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorobutadiene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270D EPA 8270E
Hexachloroethane	EPA 625.1 EPA 8270D EPA 8270E

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Chlorinated Hydrocarbons

Hexachloropropene	EPA 8270D EPA 8270E
Pentachlorobenzene	EPA 8270D EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A EPA 8270D EPA 8270E
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Dissolved Gases

Acetylene	RSK-175
Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

Fuel Oxygenates

Di-isopropyl ether	EPA 8260D EPA 8260C
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Fuel Oxygenates

Di-isopropyl ether	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260D
	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270D

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Haloethers

Bis(2-chloroethyl)ether EPA 8270E

Low Level Polynuclear Aromatics

Acenaphthene Low Level EPA 8270D

EPA 8270E

Acenaphthylene Low Level EPA 8270D

EPA 8270E

Anthracene Low Level EPA 8270D

EPA 8270E

Benzo(a)anthracene Low Level EPA 8270D

EPA 8270E

Benzo(a)pyrene Low Level EPA 8270D

EPA 8270E

Benzo(b)fluoranthene Low Level EPA 8270D

EPA 8270E

Benzo(g,h,i)perylene Low Level EPA 8270D

EPA 8270E

Benzo(k)fluoranthene Low Level EPA 8270D

EPA 8270E

Chrysene Low Level EPA 8270D

EPA 8270E

Dibenzo(a,h)anthracene Low Level EPA 8270D

EPA 8270E

Fluoranthene Low Level EPA 8270D

EPA 8270E

Fluorene Low Level EPA 8270D

EPA 8270E

Indeno(1,2,3-cd)pyrene Low Level EPA 8270D

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Low Level Polynuclear Aromatics

Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E
Naphthalene Low Level	EPA 8270D
	EPA 8270E
Phenanthrene Low Level	EPA 8270D
	EPA 8270E
Pyrene Low Level	EPA 8270D
	EPA 8270E

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals I

Chromium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Iron, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Lead, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
Magnesium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Nickel, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)

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Metals I

Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Sodium, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals II

Antimony, Total	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
Beryllium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Chromium VI	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Mercury, Low Level	EPA 218.6, Rev. 3.3 (1994)
	EPA 7196A
	EPA 7199
Mercury, Total	SM 3500-Cr B-2011
	EPA 1631E
	EPA 245.1, Rev. 3.0 (1994)
Selenium, Total	EPA 7470A
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals II

Selenium, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)

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Metals III

Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Tin, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Titanium, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Uranium (Mass)	EPA 6010D
	EPA 6020A
	EPA 6020B

Mineral

Alkalinity	SM 2320B-2011
Calcium Hardness	SM 2340B-2011
Chloride	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Hardness, Total	SM 2340C-2011
	SM 2340B-2011
Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A

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Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D
Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Color	SM 2120B-2011
Corrosivity	SM 2330-2016
Cyanide, Available	SM 4500-CN G-2016
Cyanide, Total	Kelada-01 SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2014 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993) EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011 EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D EPA 8270E
1,3-Dinitrobenzene	EPA 8270D

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Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Nitroaromatics and Isophorone

1,3-Dinitrobenzene	EPA 8270E
1,4-Naphthoquinone	EPA 8270D
	EPA 8270E
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitroquinoline-1-oxide	EPA 8270D
	EPA 8270E
Isophorone	EPA 625.1
	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 625.1
	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodimethylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-butylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270D

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Nitrosoamines

N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270D
	EPA 8270E
N-nitrosomorpholine	EPA 8270D
	EPA 8270E
N-nitrosopiperidine	EPA 8270D
	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270D
	EPA 8270E

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)

Organophosphate Pesticides

Atrazine	EPA 8270D
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Organophosphate Pesticides

Atrazine	EPA 8270E
Dimethoate	EPA 8270D
	EPA 8270E
Disulfoton	EPA 8270D
	EPA 8270E
Famphur	EPA 8270D
	EPA 8270E
Parathion ethyl	EPA 8270D
	EPA 8270E
Parathion methyl	EPA 8270D
	EPA 8270E
Phorate	EPA 8270D
	EPA 8270E
Sulfotepp	EPA 8270D
	EPA 8270E
Thionazin	EPA 8270D
	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
Gasoline Range Organics	EPA 8015C

Phthalate Esters

Benzyl butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270D

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Phthalate Esters

Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A
	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1260 (PCB-1260)	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D EPA 8270E
3-Methylcholanthrene	EPA 8270D EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D EPA 8270E
Acenaphthene	EPA 625.1 EPA 8270D EPA 8270E
Acenaphthylene	EPA 625.1 EPA 8270D EPA 8270E
Anthracene	EPA 625.1 EPA 8270D EPA 8270E
Benzo(a)anthracene	EPA 625.1 EPA 8270D EPA 8270E
Benzo(a)pyrene	EPA 625.1 EPA 8270D EPA 8270E
Benzo(b)fluoranthene	EPA 625.1 EPA 8270D

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Polynuclear Aromatics

Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270D

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Polynuclear Aromatics

Phenanthrene	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E

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Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Cresols, Total	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenol	EPA 625.1

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Priority Pollutant Phenols

Phenol	EPA 8270D
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
2-Methylnaphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Picoline	EPA 8270D
	EPA 8270E
4-Amino biphenyl	EPA 8270D
	EPA 8270E
Acetophenone	EPA 625.1
	EPA 8270D

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Semi-Volatile Organics

Acetophenone	EPA 8270E
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Ethyl methanesulfonate	EPA 8270D
	EPA 8270E
Isosafrole	EPA 8270D
	EPA 8270E
Methyl methanesulfonate	EPA 8270D
	EPA 8270E
O,O,O-Triethyl phosphorothioate	EPA 8270D
	EPA 8270E
p-Dimethylaminoazobenzene	EPA 8270D
	EPA 8270E
Phenacetin	EPA 8270D
	EPA 8270E
Safrole	EPA 8270D

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Semi-Volatile Organics

Safrole EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile EPA 8260D

EPA 8260C

1,2,4-Trimethylbenzene EPA 8260D

EPA 8260C

1,2-Dichlorobenzene EPA 8260D

EPA 8260C

EPA 624.1

1,3,5-Trimethylbenzene EPA 8260D

EPA 8260C

1,3-Dichlorobenzene EPA 8260D

EPA 8260C

EPA 624.1

1,4-Dichlorobenzene EPA 8260D

EPA 8260C

EPA 624.1

2-Chlorotoluene EPA 8260D

EPA 8260C

4-Chlorotoluene EPA 8260D

EPA 8260C

Benzene EPA 8260D

EPA 8260C

EPA 624.1

Bromobenzene EPA 8260D

EPA 8260C

Chlorobenzene EPA 8260D

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Volatile Aromatics

Chlorobenzene	EPA 8260C EPA 624.1
Ethyl benzene	EPA 8260D EPA 8260C EPA 624.1
Isopropylbenzene	EPA 8260D EPA 8260C
m/p-Xylenes	EPA 8260D EPA 8260C EPA 624.1
Naphthalene, Volatile	EPA 8260D EPA 8260C EPA 624.1
n-Butylbenzene	EPA 8260D EPA 8260C
n-Propylbenzene	EPA 8260D EPA 8260C
o-Xylene	EPA 8260D EPA 8260C EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D EPA 8260C
sec-Butylbenzene	EPA 8260D EPA 8260C
Styrene	EPA 8260D EPA 8260C EPA 624.1



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Volatile Aromatics

tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260D

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

1,1-Dichloroethene	EPA 8260C EPA 624.1
1,1-Dichloropropene	EPA 8260D EPA 8260C
1,2,3-Trichloropropane	EPA 8260D EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D EPA 8260C
1,2-Dibromoethane	EPA 8260D EPA 8260C
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260D EPA 8260C
1,2-Dichloroethane	EPA 8260D EPA 8260C EPA 624.1
1,2-Dichloropropane	EPA 8260D EPA 8260C EPA 624.1
1,3-Dichloropropane	EPA 8260D EPA 8260C
2,2-Dichloropropane	EPA 8260D EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D EPA 8260C EPA 624.1

Serial No.: 68403

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

3-Chloropropene (Allyl chloride)	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 624.1
	EPA 8260D
	EPA 8260C
Bromomethane	EPA 624.1
	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloroethane	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloroform	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloromethane	EPA 624.1
	EPA 8260D
	EPA 8260C
cis-1,2-Dichloroethene	EPA 624.1
	EPA 8260D
	EPA 8260C

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cis-1,2-Dichloroethene	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260D
	EPA 8260C
Dichlorodifluoromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C
Methyl iodide	EPA 8260D
	EPA 8260C
Methylene chloride	EPA 8260D
	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C

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trans-1,3-Dichloropropene	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D EPA 8260C
Trichloroethene	EPA 8260D EPA 8260C EPA 624.1
Trichlorofluoromethane	EPA 8260D EPA 8260C EPA 624.1
Vinyl chloride	EPA 8260D EPA 8260C EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D EPA 8260C EPA 8270D EPA 8270D SIM EPA 8270E EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D EPA 8260C
2-Hexanone	EPA 8260D EPA 8260C
2-Nitropropane	EPA 8260D EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D EPA 8260C

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Volatiles Organics

4-Methyl-2-Pentanone	EPA 624.1
Acetone	EPA 8260D
	EPA 8260C
	EPA 624.1
Acetonitrile	EPA 8260D
	EPA 8260C
	EPA 624.1
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Di-ethyl ether	EPA 8260D
	EPA 8260C
Ethyl Acetate	EPA 8260D
	EPA 8260C
	EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260D
	EPA 8260C
	EPA 8015C
Isopropanol	EPA 8260D
	EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C

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Volatiles Organics

n-Butanol	EPA 8260D
	EPA 8260C
o-Toluidine	EPA 8270D
	EPA 8270E
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
	EPA 624.1
Vinyl acetate	EPA 8260D
	EPA 8260C
	EPA 624.1

Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
Acrylonitrile	EPA 8260D
	EPA 8260C
Ethyl methacrylate	EPA 8260D
	EPA 8260C
Methyl acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
	EPA 8270E
1,4-Phenylenediamine	EPA 8270D
	EPA 8270E
1-Naphthylamine	EPA 8270D
	EPA 8270E
2-Naphthylamine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D
	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E

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Amines

5-Nitro-o-toluidine	EPA 8270D EPA 8270E
Aniline	EPA 8270D EPA 8270E
Carbazole	EPA 8270D EPA 8270E
Diphenylamine	EPA 8270D EPA 8270E
Methapyrilene	EPA 8270D EPA 8270E
Pronamide	EPA 8270D EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270D EPA 8270E
Benzidine	EPA 8270D EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9040C EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

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Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
	EPA 8270E
delta-BHC	EPA 8081B
Diallate	EPA 8270D
	EPA 8270E
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270D
	EPA 8270E

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Chlorinated Hydrocarbon Pesticides

Kepone	EPA 8270D
	EPA 8270E
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270D
	EPA 8270E
1-Chloronaphthalene	EPA 8270D
	EPA 8270E
2-Chloronaphthalene	EPA 8270D
	EPA 8270E
Hexachlorobenzene	EPA 8270D
	EPA 8270E
Hexachlorobutadiene	EPA 8270D
	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270D
	EPA 8270E
Hexachloroethane	EPA 8270D
	EPA 8270E
Hexachloropropene	EPA 8270D

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Chlorinated Hydrocarbons

Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270D
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270D
	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
	EPA 8270E
Acenaphthylene Low Level	EPA 8270D

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Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthylene Low Level	EPA 8270E
Anthracene Low Level	EPA 8270D
	EPA 8270E
Benzo(a)anthracene Low Level	EPA 8270D
	EPA 8270E
Benzo(a)pyrene Low Level	EPA 8270D
	EPA 8270E
Benzo(b)fluoranthene Low Level	EPA 8270D
	EPA 8270E
Benzo(g,h,i)perylene Low Level	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene Low Level	EPA 8270D
	EPA 8270E
Chrysene Low Level	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene Low Level	EPA 8270D
	EPA 8270E
Fluoranthene Low Level	EPA 8270D
	EPA 8270E
Fluorene Low Level	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
	EPA 8270E
Naphthalene Low Level	EPA 8270D
	EPA 8270E
Phenanthrene Low Level	EPA 8270D
	EPA 8270E

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Low Level Polynuclear Aromatic Hydrocarbons

Pyrene Low Level EPA 8270D
 EPA 8270E

Metals I

Barium, Total EPA 6010C
 EPA 6010D
 EPA 6020A
Cadmium, Total EPA 6010C
 EPA 6010D
 EPA 6020A
Calcium, Total EPA 6010C
 EPA 6010D
Chromium, Total EPA 6010C
 EPA 6010D
 EPA 6020A
Copper, Total EPA 6010C
 EPA 6010D
 EPA 6020A
Iron, Total EPA 6010C
 EPA 6010D
Lead, Total EPA 6010C
 EPA 6010D
 EPA 6020A
Magnesium, Total EPA 6010C
 EPA 6010D
Manganese, Total EPA 6010C
 EPA 6010D
 EPA 6020A

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Metals I

Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Potassium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Silver, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Sodium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Strontium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

Metals II

Aluminum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Antimony, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
	EPA 6010D

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Metals II

Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Molybdenum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Silica, Dissolved	EPA 6010C
	EPA 6010D
Thallium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Tin, Total	EPA 6010C
	EPA 6010D
Titanium, Total	EPA 6010C
	EPA 6010D

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Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C EPA 6010D
Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D EPA 8270E
1,3-Dinitrobenzene	EPA 8270D EPA 8270E
1,4-Naphthoquinone	EPA 8270D EPA 8270E
2,4-Dinitrotoluene	EPA 8270D EPA 8270E
2,6-Dinitrotoluene	EPA 8270D EPA 8270E
4-Dimethylaminoazobenzene	EPA 8270D EPA 8270E
4-Nitroquinoline-1-oxide	EPA 8270D EPA 8270E

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Nitroaromatics and Isophorone

Isophorone	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 8270D
	EPA 8270E
Pyridine	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodimethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-butylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270D
	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270D
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270D
	EPA 8270E
N-nitrosomorpholine	EPA 8270D
	EPA 8270E
N-nitrosopiperidine	EPA 8270D
	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270D

Nutrients

Nitrate (as N)	EPA 9056A
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Nutrients

Nitrite (as N) EPA 9056A

Organophosphate Pesticides

Dimethoate EPA 8270D

EPA 8270E

Disulfoton EPA 8270D

EPA 8270E

Famphur EPA 8270D

EPA 8270E

Parathion ethyl EPA 8270D

EPA 8270E

Parathion methyl EPA 8270D

EPA 8270E

Phorate EPA 8270D

EPA 8270E

Sulfotepp EPA 8270D

EPA 8270E

Thionazin EPA 8270D

EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics EPA 8015C

Gasoline Range Organics EPA 8015C

Phthalate Esters

Benzyl butyl phthalate EPA 8270D

EPA 8270E

Bis(2-ethylhexyl) phthalate EPA 8270D

EPA 8270E

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Phthalate Esters

Diethyl phthalate	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 8270D
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

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Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D EPA 8270E
3-Methylcholanthrene	EPA 8270D EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D EPA 8270E
Acenaphthene	EPA 8270D EPA 8270E
Acenaphthylene	EPA 8270D EPA 8270E
Anthracene	EPA 8270D EPA 8270E
Benzo(a)anthracene	EPA 8270D EPA 8270E
Benzo(a)pyrene	EPA 8270D EPA 8270E
Benzo(b)fluoranthene	EPA 8270D EPA 8270E
Benzo(g,h,i)perylene	EPA 8270D EPA 8270E
Benzo(k)fluoranthene	EPA 8270D EPA 8270E
Chrysene	EPA 8270D EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270D EPA 8270E
Fluoranthene	EPA 8270D

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Polynuclear Aromatic Hydrocarbons

Fluoranthene	EPA 8270E
Fluorene	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270D
	EPA 8270E
Naphthalene	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 8270D
	EPA 8270E
Pyrene	EPA 8270D
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 8270D



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Priority Pollutant Phenols

2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8270D
	EPA 8270E
Phenol	EPA 8270D
	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D

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Semi-Volatile Organics

1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270D
	EPA 8270E
2-Picoline	EPA 8270D
	EPA 8270E
4-Amino biphenyl	EPA 8270D
	EPA 8270E
Acetophenone	EPA 8270D
	EPA 8270E
Aramite	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Ethyl methanesulfonate	EPA 8270D
	EPA 8270E
Isosafrole	EPA 8270D
	EPA 8270E
Methyl methanesulfonate	EPA 8270D
	EPA 8270E

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate	EPA 8270D EPA 8270E
Phenacetin	EPA 8270D EPA 8270E
Safrole	EPA 8270D EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D EPA 8260C
1,2-Dichlorobenzene	EPA 8260D EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260D EPA 8260C
1,3-Dichlorobenzene	EPA 8260D EPA 8260C
1,4-Dichlorobenzene	EPA 8260D EPA 8260C
2-Chlorotoluene	EPA 8260D EPA 8260C
4-Chlorotoluene	EPA 8260D EPA 8260C
Benzene	EPA 8260D EPA 8260C
Bromobenzene	EPA 8260D EPA 8260C

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Volatile Aromatics

Chlorobenzene	EPA 8260D
	EPA 8260C
Ethyl benzene	EPA 8260D
	EPA 8260C
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D
	EPA 8260C
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
n-Butylbenzene	EPA 8260D
	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
Total Xylenes	EPA 8260D

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Volatile Aromatics

Total Xylenes EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane EPA 8260D

EPA 8260C

1,1,1-Trichloroethane EPA 8260D

EPA 8260C

1,1,2,2-Tetrachloroethane EPA 8260D

EPA 8260C

1,1,2-Trichloro-1,2,2-Trifluoroethane EPA 8260D

EPA 8260C

1,1,2-Trichloroethane EPA 8260D

EPA 8260C

1,1-Dichloroethane EPA 8260D

EPA 8260C

1,1-Dichloroethene EPA 8260D

EPA 8260C

1,1-Dichloropropene EPA 8260D

EPA 8260C

1,2,3-Trichloropropane EPA 8260D

EPA 8260C

1,2-Dibromo-3-chloropropane EPA 8260D

EPA 8260C

1,2-Dibromoethane EPA 8260D

EPA 8260C

1,2-Dichloroethane EPA 8260D

EPA 8260C

1,2-Dichloropropane EPA 8260D

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Volatile Halocarbons

1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260D
	EPA 8260C
2,2-Dichloropropane	EPA 8260D
	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D
	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D
	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 8260D
	EPA 8260C
Bromomethane	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 8260D
	EPA 8260C
Chloroethane	EPA 8260D
	EPA 8260C
Chloroform	EPA 8260D
	EPA 8260C
Chloromethane	EPA 8260D
	EPA 8260C

Serial No.: 68404

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 8260D EPA 8260C
cis-1,3-Dichloropropene	EPA 8260D EPA 8260C
Dibromochloromethane	EPA 8260D EPA 8260C
Dibromomethane	EPA 8260D EPA 8260C
Dichlorodifluoromethane	EPA 8260D EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260D EPA 8260C
Methyl iodide	EPA 8260D EPA 8260C
Methylene chloride	EPA 8260D EPA 8260C
Tetrachloroethene	EPA 8260D EPA 8260C
trans-1,2-Dichloroethene	EPA 8260D EPA 8260C
trans-1,3-Dichloropropene	EPA 8260D EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260D EPA 8260C
Trichloroethene	EPA 8260D EPA 8260C
Trichlorofluoromethane	EPA 8260D

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All approved analytes are listed below:*

Volatile Halocarbons

Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260D
	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260D
	EPA 8260C
	EPA 8270D
	EPA 8270E
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
2-Nitropropane	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C
Acetonitrile	EPA 8260D
	EPA 8260C
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Di-ethyl ether	EPA 8260D
	EPA 8260C
Ethylene Glycol	EPA 8015C



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All approved analytes are listed below:*

Volatile Organics

Isobutyl alcohol	EPA 8260D
	EPA 8260C
Isopropanol	EPA 8260D
	EPA 8260C
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
n-Butanol	EPA 8260D
	EPA 8260C
o-Toluidine	EPA 8270D
	EPA 8270E
Propionitrile	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
Vinyl acetate	EPA 8260D
	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B

Serial No.: 68404

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Sample Preparation Methods

EPA 3050B
EPA 3546
EPA 3060A
EPA 3541



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NY Lab Id No: 10145

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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8



Serial No.: 68405

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American Premier Underwriters, Inc.

One East Fourth Street
Cincinnati, Ohio 45202
Telephone (513) 579-6616
Facsimile (513) 579-0108

Michael L. Cioffi
Vice President and
Assistant General Counsel

May 25, 1995

Effective June 1, 1995, I, Mr. Michael Cioffi, Vice President and Assistant General Counsel of American Premier Underwriters, Inc., hereby authorize Mr. John M. Falbo of NES, Inc. to procure samples of the wastewater discharge for analysis pursuant to the wastewater discharge permit granted by the Erie County Department of Environment and Planning on May xx, 1995 (Permit #95-05-E1016). I also authorized Mr. Mark Cambra of NES, Inc. to prepare and submit the monitoring report on my behalf.



Mr. Michael Cioffi
Vice President and Assistant General Counsel
American Premier Underwriters, Inc.

May 26, 1995

Date

APPENDIX C
3Q24 Discharge Report



October 11, 2024
OP-4709

Erie County Department of Environment and Planning
Division of Sewerage Management
Erie County Sewer District #6
260 Lehigh Avenue
Lackawanna, New York 14218

Attn: Laura Surdej
Industrial Wastewater Specialist

Subject: Quarterly Discharge Monitoring Report Submittal
(3rd Quarter: July to September 2024)
Union Road Site, 333 Losson Road, Cheektowaga, Erie County, NY
Inactive Hazardous Waste Disposal Site No. 915128

Ref: Authorization to Discharge Under Erie County/Buffalo Pollutant
Discharge Elimination System, Permit Number 19-08-E1016

Dear Ms. Surdej:

As required by Part I, Section B of the referenced permit, Unicorn Management Consultants, LLC (UMC) is submitting the Quarterly Discharge Monitoring Report (3rd Quarter: July to September 2024) for the subject site.

The information required for the Discharge Monitoring Report from the subject site is enclosed as follows:

- A summary of analyses with laboratory data which includes date, time, and method used for each analysis;
- Chain of Custody forms;
- Daily Sampling Activity Sheets;
- Analysis Summary Table;
- Quantity of water discharged to the sanitary sewer for the 3rd Quarter 2024;
- Conversion of mg/l to lbs/gal for wastewater discharge mass calculations;
- Map indicating the location of the sampling point (Figure 1);
- Certification from the NYS Department of Health for ALS Group USA Corp. dba ALS Environmental (Formerly Columbia Analytical Services, Inc.); and
- A copy of the certification letter, dated May 25, 1995, from American Premier Underwriters, Inc. which authorizes Unicorn Management Consultants, to collect samples and prepare the monitoring reports for the referenced permit.



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the systems, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you should have any questions or comments, please do not hesitate to call me at 203-205-9000, ext. 13.

Sincerely,
Unicorn Management Consultants, LLC

Michael O'Connor
Manager of Environmental Projects
Union Road Remediation Project

Enclosures

cc: M. Szilagyi
M. Kuczka (electronic copy only)
M. Hill, Esq. (electronic copy only)
L. Lackner (electronic copy only)



Summary of Sampling Activity

A. Sample Point: Discharge pipe in wet well

B. Date: August 20, 2024

C. Time, temperature, and pH of samples:
(Pump started at 0810)

First Sample:	0800	56.37 °F	7.17 pH
Second Sample:	0815	55.36 °F	6.96 pH
Third Sample:	0830	55.76 °F	7.23 pH
Fourth Sample:	0845	57.52 °F	7.23 pH

(Pump stopped at 0900)

Total run time: 60-Minutes

D. Total water consumption during sampling period:
Meter reading at start: 212,512-gallons
Meter reading at stop: 214,185-gallons

Flow for the 60-minutes is 1,673 gallons.

E. Physical observations (sight, smell, etc.) of the discharge during sample effort: Water is clear and odorless throughout the sampling effort.

F. Weather conditions during entire sampling period: Sunny, ~60 °F

G. Miscellaneous notes: Water level in the sump dropped below the low-level shut-off at 0900. The sump was manually deactivated until 0915 when the fourth sample was taken.

H. UMC Field tech: Rigby Michaelsen and Tobias Sisco



ANALYSIS SUMMARY TABLE
 QUARTERLY
 DISCHARGE SAMPLING EVENT

August 20, 2024

DATE	Composite TIME	Ave. Temp °F	Average pH	ANALYTES		PHENOLS	LEAD Total	LEAD Dissolved	FLOW
				TSS	Total Extractable Hydrocarbons				
BSA LIMITS			5 TO 12	250 mg/L	100 mg/L	20 mg/L	65 mg/L	ug/L	NONE
8/20/2024	0915	13	7.23	1.0 U	4.7 U	0.005 U	0.005 U	50 U	1,178
MASS FOR SAMPLE VOLUME						0.000	0.000	0.000	

MASS is reported in pounds
 concentrations are reported in mg/L (unless otherwise noted)

FLOW is reported in gallons
 ND = analyte was not detected

NOTE: If analyte was not detected, the detection limit was used to calculate mass loading (reported in pounds)

Detection Limits | Total Suspended Solids = 1.0 mg/L
 Total Extractable Hydrocarbons = 4.7 mg/L
 Total Phenols = 0.005 mg/L
 Total Lead = 0.005 mg/L
 Dissolved Lead = 50 ug/L



2024 Discharge Summary

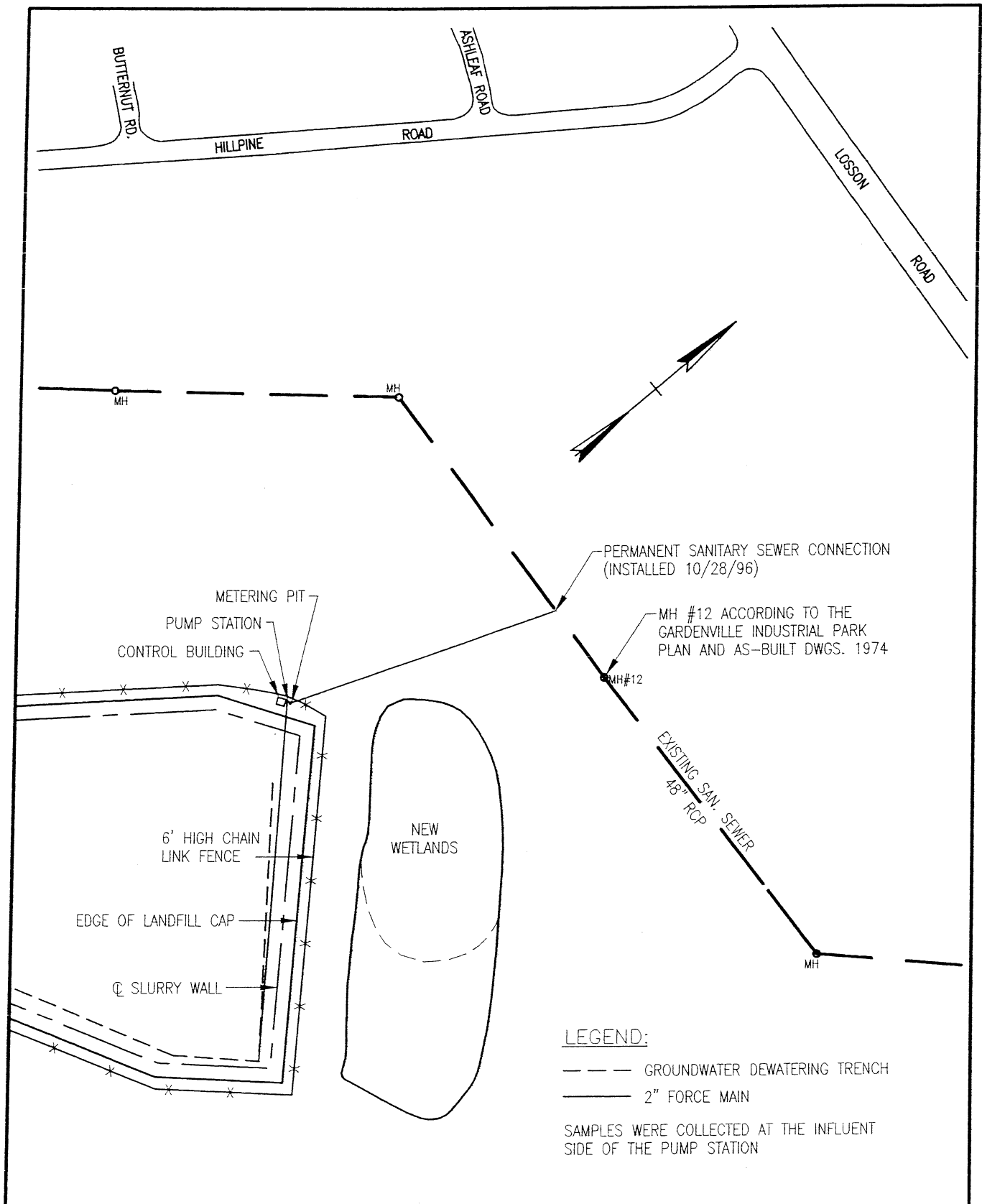
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q24	3/7/2024	173,601	7,643
2Q24	5/1/2024	188,976	15,375
3Q24	8/20/2024	214,185	25,209
		Yearly Total Gallons	48,227




Conversion Formula

Conversion of mg/L to lbs/gal for Wastewater Discharge:

$$\frac{1mg}{L} * \frac{1g}{1000mg} * \frac{1Kg}{1000g} * \frac{2.205lbs}{1Kg} * \frac{3.78L}{1gal} = \frac{1lb}{119.977gal}$$



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2045-100	
NO.	DATE				FILENAME: 2045100E	SCALE: 1"=200'
		DRAWING	LANDFILL DEWATERING LOCATION		DATE: 11/20/01	BY: AD
					FIGURE # 1	CK:



September 13, 2024

Service Request No:R2407937

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2024
For your reference, these analyses have been assigned our service request number **R2407937**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2407937
Date Received: 08/20/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 08/20/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 09/06/2024



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request:R2407937

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2407937-001	3Q24 Effluent	8/20/2024	0915
R2407937-002	3Q24 Effluent Diss	8/20/2024	0915

[illegible]



R2407937

5

Unicorn Management Consultants
Union Rd

Cooler Receipt and Preservation Check Form

Project/Client Unicorn Folder Number _____Cooler received on 8/20/24 by: RDACOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	5a	Did VOA vials have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	5b	Sig* bubbles: Alk? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Sulfide? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 8/20/24 Time: 1740 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>3.9</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
If <0°C, were samples frozen?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rdz by RDA on 8/20/24 at 1741
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y ☐ N ☐Cooler Breakdown/Preservation Check**: Date: 8/21/24 Time: 1322 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID	Vol.	Lot Added	Final
			Yes No			Adjusted	Added		pH
≥12		NaOH							
≤2	<u>221523</u>	HNO ₃	<input checked="" type="checkbox"/>	<u>bottle label</u>					
≤2	<u>↓</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>	<u>24004104</u>	<u>7/26</u>				
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<input checked="" type="checkbox"/>	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -						
		HCl	** **						

** VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 062424HEKP, 070824-2EFO, bottle label covers info.
Explain all Discrepancies/ Other Comments:

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2407937

Sample Name: 3Q24 Effluent
Lab Code: R2407937-001
Sample Matrix: Water

Date Collected: 08/20/24
Date Received: 08/20/24

Analysis Method
1664B
420.4
6010D
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By
SZOGBY
CWOODS
ECASTROVINCI
HCASTROVINCI

Sample Name: 3Q24 Effluent Diss
Lab Code: R2407937-002
Sample Matrix: Water

Date Collected: 08/20/24
Date Received: 08/20/24

Analysis Method
6010D

Extracted/Digested By
CDISTEFANO

Analyzed By
ECASTROVINCI

Sample Name: MW-10D
Lab Code: R2407937-003
Sample Matrix: Water

Date Collected: 08/20/24
Date Received: 08/20/24

Analysis Method
1664B

Extracted/Digested By

Analyzed By
SZOGBY



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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www.alsglobal.com



Metals

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent
Lab Code: R2407937-001

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	0.0050 U	mg/L	0.0050	1	08/23/24 17:46	08/22/24	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent Diss
Lab Code: R2407937-002

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Dissolved	6010D	50 U	ug/L	50	1	08/23/24 17:50	08/22/24	



General Chemistry

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dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent
Lab Code: R2407937-001

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	4.7 U	mg/L	4.7	1	09/03/24 09:00	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	08/26/24 22:12	
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0 U	mg/L	1.0	1	08/27/24 16:00	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2407937-MB

Service Request: R2407937
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Dissolved	6010D	50 U	ug/L	50	1	08/23/24 16:45	08/22/24	
Lead, Total	6010D	0.0050 U	mg/L	0.0050	1	08/23/24 16:45	08/22/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/23/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample R2407937-LCS					Duplicate Lab Control Sample R2407937-DLCS					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Dissolved	6010D	521	500	104	513	500	103	80-120	2	20

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/23/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2407937-LCS			R2407937-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Total	6010D	0.521	0.500	104	0.513	0.500	103	80-120	2	20



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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2407937-MB

Service Request: R2407937
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	5.1 U	mg/L	5.1	1	09/03/24 09:00	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	08/26/24 20:30	
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0 U	mg/L	1.0	1	08/27/24 16:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/26/24 - 08/27/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2407937-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0409	0.0400	102	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	177	214	83	80-120

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Dissolved Gases

Acetylene RSK-175
Ethane RSK-175
Ethene (Ethylene) RSK-175
Methane RSK-175
Propane RSK-175

Fuel Additives

Methyl tert-butyl ether EPA 524.2
Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4
Barium, Total EPA 200.8 Rev. 5.4
Cadmium, Total EPA 200.8 Rev. 5.4
Chromium, Total EPA 200.7 Rev. 4.4
Copper, Total EPA 200.8 Rev. 5.4
Iron, Total EPA 200.7 Rev. 4.4
Lead, Total EPA 200.8 Rev. 5.4
Manganese, Total EPA 200.7 Rev. 4.4
Mercury, Total EPA 245.1 Rev. 3.0
Selenium, Total EPA 200.8 Rev. 5.4
Silver, Total EPA 200.7 Rev. 4.4

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American Premier Underwriters, Inc.

One East Fourth Street
Cincinnati, Ohio 45202
Telephone (513) 579-6616
Facsimile (513) 579-0108

Michael L. Cioffi
Vice President and
Assistant General Counsel

May 25, 1995

Effective June 1, 1995, I, Mr. Michael Cioffi, Vice President and Assistant General Counsel of American Premier Underwriters, Inc., hereby authorize Mr. John M. Falbo of NES, Inc. to procure samples of the wastewater discharge for analysis pursuant to the wastewater discharge permit granted by the Erie County Department of Environment and Planning on May xx, 1995 (Permit #95-05-E1016). I also authorized Mr. Mark Cambra of NES, Inc. to prepare and submit the monitoring report on my behalf.



Mr. Michael Cioffi
Vice President and Assistant General Counsel
American Premier Underwriters, Inc.

May 26, 1995

Date

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Metals I

Silver, Total	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Total	SM 21-23 5310B (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
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Non-Metals

Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2
	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2

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Volatile Aromatics

1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2

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Volatile Halocarbons

1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2



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All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260D
	EPA 8260C
Methyl acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
	EPA 8270E
1,4-Phenylenediamine	EPA 8270D
	EPA 8270E
1-Naphthylamine	EPA 8270D
	EPA 8270E
2-Naphthylamine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D

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Amines

4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E
5-Nitro-o-toluidine	EPA 8270D
	EPA 8270E
Aniline	EPA 625.1
	EPA 8270D
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270D
	EPA 8270E
Diphenylamine	EPA 8270D
	EPA 8270E
Methapyrilene	EPA 8270D
	EPA 8270E
Pronamide	EPA 8270D
	EPA 8270E
Propionitrile	EPA 8260D
	EPA 8260C
Pyridine	EPA 625.1
	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270D
	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270D
	EPA 8270E

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All approved analytes are listed below:*

Benzidines

Benzidine	EPA 625.1
	EPA 8270D
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270D
	EPA 8270E
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270D
	EPA 8270E
Dieldrin	EPA 8081B

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Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
	EPA 8270E
Kepone	EPA 8270D
	EPA 8270E
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B

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WADSWORTH CENTER



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Chlorinated Hydrocarbon Pesticides

PCNB	EPA 8270D EPA 8270E
Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270D EPA 8270E
2-Chloronaphthalene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorobenzene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorobutadiene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270D EPA 8270E
Hexachloroethane	EPA 625.1 EPA 8270D EPA 8270E

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Chlorinated Hydrocarbons

Hexachloropropene	EPA 8270D
	EPA 8270E
Pentachlorobenzene	EPA 8270D
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A
	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Dissolved Gases

Acetylene	RSK-175
Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

Fuel Oxygenates

Di-isopropyl ether	EPA 8260D
	EPA 8260C

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Fuel Oxygenates

Di-isopropyl ether	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260D
	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270D

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Haloethers

Bis(2-chloroethyl)ether EPA 8270E

Low Level Polynuclear Aromatics

Acenaphthene Low Level EPA 8270D

EPA 8270E

Acenaphthylene Low Level EPA 8270D

EPA 8270E

Anthracene Low Level EPA 8270D

EPA 8270E

Benzo(a)anthracene Low Level EPA 8270D

EPA 8270E

Benzo(a)pyrene Low Level EPA 8270D

EPA 8270E

Benzo(b)fluoranthene Low Level EPA 8270D

EPA 8270E

Benzo(g,h,i)perylene Low Level EPA 8270D

EPA 8270E

Benzo(k)fluoranthene Low Level EPA 8270D

EPA 8270E

Chrysene Low Level EPA 8270D

EPA 8270E

Dibenzo(a,h)anthracene Low Level EPA 8270D

EPA 8270E

Fluoranthene Low Level EPA 8270D

EPA 8270E

Fluorene Low Level EPA 8270D

EPA 8270E

Indeno(1,2,3-cd)pyrene Low Level EPA 8270D

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Low Level Polynuclear Aromatics

Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E
Naphthalene Low Level	EPA 8270D
	EPA 8270E
Phenanthrene Low Level	EPA 8270D
	EPA 8270E
Pyrene Low Level	EPA 8270D
	EPA 8270E

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals I

Chromium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Iron, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Lead, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
Magnesium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Nickel, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)

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Metals I

Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Sodium, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals II

Antimony, Total	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
Beryllium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Chromium VI	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Mercury, Low Level	EPA 218.6, Rev. 3.3 (1994)
	EPA 7196A
	EPA 7199
Mercury, Total	SM 3500-Cr B-2011
	EPA 1631E
	EPA 245.1, Rev. 3.0 (1994)
Selenium, Total	EPA 7470A
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals II

Selenium, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)

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Metals III

Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Tin, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Uranium (Mass)	EPA 6020A
	EPA 6020B

Mineral

Alkalinity	SM 2320B-2011
Calcium Hardness	SM 2340B-2011
Chloride	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Hardness, Total	SM 2340C-2011
	SM 2340B-2011
Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A

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Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D
Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Color	SM 2120B-2011
Corrosivity	SM 2330-2016
Cyanide, Available	SM 4500-CN G-2016
Cyanide, Total	Kelada-01 SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2014 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993) EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011 EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D EPA 8270E
1,3-Dinitrobenzene	EPA 8270D

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Nitroaromatics and Isophorone

1,3-Dinitrobenzene	EPA 8270E
1,4-Naphthoquinone	EPA 8270D
	EPA 8270E
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitroquinoline-1-oxide	EPA 8270D
	EPA 8270E
Isophorone	EPA 625.1
	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 625.1
	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodimethylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-butylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270D

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Nitrosoamines

N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270D
	EPA 8270E
N-nitrosomorpholine	EPA 8270D
	EPA 8270E
N-nitrosopiperidine	EPA 8270D
	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270D
	EPA 8270E

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)

Organophosphate Pesticides

Atrazine	EPA 8270D
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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

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Organophosphate Pesticides

Atrazine	EPA 8270E
Dimethoate	EPA 8270D
	EPA 8270E
Disulfoton	EPA 8270D
	EPA 8270E
Famphur	EPA 8270D
	EPA 8270E
Parathion ethyl	EPA 8270D
	EPA 8270E
Parathion methyl	EPA 8270D
	EPA 8270E
Phorate	EPA 8270D
	EPA 8270E
Sulfotepp	EPA 8270D
	EPA 8270E
Thionazin	EPA 8270D
	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
Gasoline Range Organics	EPA 8015C

Phthalate Esters

Benzyl butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270D

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Phthalate Esters

Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 625.1 EPA 8270D EPA 8270E
Dimethyl phthalate	EPA 625.1 EPA 8270D EPA 8270E
Di-n-butyl phthalate	EPA 625.1 EPA 8270D EPA 8270E
Di-n-octyl phthalate	EPA 625.1 EPA 8270D EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1260 (PCB-1260)	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D EPA 8270E
3-Methylcholanthrene	EPA 8270D EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D EPA 8270E
Acenaphthene	EPA 625.1 EPA 8270D EPA 8270E
Acenaphthylene	EPA 625.1 EPA 8270D EPA 8270E
Anthracene	EPA 625.1 EPA 8270D EPA 8270E
Benzo(a)anthracene	EPA 625.1 EPA 8270D EPA 8270E
Benzo(a)pyrene	EPA 625.1 EPA 8270D EPA 8270E
Benzo(b)fluoranthene	EPA 625.1 EPA 8270D

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Polynuclear Aromatics

Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270D

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Polynuclear Aromatics

Phenanthrene	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E

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Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Cresols, Total	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenol	EPA 625.1

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Priority Pollutant Phenols

Phenol	EPA 8270D
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
2-Methylnaphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Picoline	EPA 8270D
	EPA 8270E
4-Amino biphenyl	EPA 8270D
	EPA 8270E
Acetophenone	EPA 625.1
	EPA 8270D

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Semi-Volatile Organics

Acetophenone	EPA 8270E
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Ethyl methanesulfonate	EPA 8270D
	EPA 8270E
Isosafrole	EPA 8270D
	EPA 8270E
Methyl methanesulfonate	EPA 8270D
	EPA 8270E
O,O,O-Triethyl phosphorothioate	EPA 8270D
	EPA 8270E
p-Dimethylaminoazobenzene	EPA 8270D
	EPA 8270E
Phenacetin	EPA 8270D
	EPA 8270E
Safrole	EPA 8270D

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Semi-Volatile Organics

Safrole EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile EPA 8260D

EPA 8260C

1,2,4-Trimethylbenzene EPA 8260D

EPA 8260C

1,2-Dichlorobenzene EPA 8260D

EPA 8260C

EPA 624.1

1,3,5-Trimethylbenzene EPA 8260D

EPA 8260C

1,3-Dichlorobenzene EPA 8260D

EPA 8260C

EPA 624.1

1,4-Dichlorobenzene EPA 8260D

EPA 8260C

EPA 624.1

2-Chlorotoluene EPA 8260D

EPA 8260C

4-Chlorotoluene EPA 8260D

EPA 8260C

Benzene EPA 8260D

EPA 8260C

EPA 624.1

Bromobenzene EPA 8260D

EPA 8260C

Chlorobenzene EPA 8260D

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Volatile Aromatics

Chlorobenzene	EPA 8260C EPA 624.1
Ethyl benzene	EPA 8260D EPA 8260C EPA 624.1
Isopropylbenzene	EPA 8260D EPA 8260C
m/p-Xylenes	EPA 8260D EPA 8260C EPA 624.1
Naphthalene, Volatile	EPA 8260D EPA 8260C EPA 624.1
n-Butylbenzene	EPA 8260D EPA 8260C
n-Propylbenzene	EPA 8260D EPA 8260C
o-Xylene	EPA 8260D EPA 8260C EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D EPA 8260C
sec-Butylbenzene	EPA 8260D EPA 8260C
Styrene	EPA 8260D EPA 8260C EPA 624.1

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Volatile Aromatics

tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260D

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Volatile Halocarbons

1,1-Dichloroethene	EPA 8260C EPA 624.1
1,1-Dichloropropene	EPA 8260D EPA 8260C
1,2,3-Trichloropropane	EPA 8260D EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D EPA 8260C
1,2-Dibromoethane	EPA 8260D EPA 8260C
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260D EPA 8260C
1,2-Dichloroethane	EPA 8260D EPA 8260C EPA 624.1
1,2-Dichloropropane	EPA 8260D EPA 8260C EPA 624.1
1,3-Dichloropropane	EPA 8260D EPA 8260C
2,2-Dichloropropane	EPA 8260D EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D EPA 8260C EPA 624.1

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Volatile Halocarbons

3-Chloropropene (Allyl chloride)	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 624.1
	EPA 8260D
	EPA 8260C
Bromomethane	EPA 624.1
	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloroethane	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloroform	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloromethane	EPA 624.1
	EPA 8260D
	EPA 8260C
cis-1,2-Dichloroethene	EPA 624.1
	EPA 8260D
	EPA 8260C

Serial No.: 68403

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260D
	EPA 8260C
Dichlorodifluoromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C
Methyl iodide	EPA 8260D
	EPA 8260C
Methylene chloride	EPA 8260D
	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C

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Volatile Halocarbons

trans-1,3-Dichloropropene	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D EPA 8260C
Trichloroethene	EPA 8260D EPA 8260C EPA 624.1
Trichlorofluoromethane	EPA 8260D EPA 8260C EPA 624.1
Vinyl chloride	EPA 8260D EPA 8260C EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D EPA 8260C EPA 8270D EPA 8270D SIM EPA 8270E EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D EPA 8260C
2-Hexanone	EPA 8260D EPA 8260C
2-Nitropropane	EPA 8260D EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D EPA 8260C



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Volatiles Organics

4-Methyl-2-Pentanone	EPA 624.1
Acetone	EPA 8260D EPA 8260C EPA 624.1
Acetonitrile	EPA 8260D EPA 8260C EPA 624.1
Carbon Disulfide	EPA 8260D EPA 8260C
Cyclohexane	EPA 8260D EPA 8260C
Di-ethyl ether	EPA 8260D EPA 8260C
Ethyl Acetate	EPA 8260D EPA 8260C EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260D EPA 8260C EPA 8015C
Isopropanol	EPA 8260D EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260D EPA 8260C
Methyl cyclohexane	EPA 8260D EPA 8260C

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Volatiles Organics

n-Butanol	EPA 8260D
	EPA 8260C
o-Toluidine	EPA 8270D
	EPA 8270E
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
	EPA 624.1
Vinyl acetate	EPA 8260D
	EPA 8260C
	EPA 624.1

Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A



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Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
Acrylonitrile	EPA 8260D
	EPA 8260C
Ethyl methacrylate	EPA 8260D
	EPA 8260C
Methyl acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
	EPA 8270E
1,4-Phenylenediamine	EPA 8270D
	EPA 8270E
1-Naphthylamine	EPA 8270D
	EPA 8270E
2-Naphthylamine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D
	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E

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Amines

5-Nitro-o-toluidine	EPA 8270D EPA 8270E
Aniline	EPA 8270D EPA 8270E
Carbazole	EPA 8270D EPA 8270E
Diphenylamine	EPA 8270D EPA 8270E
Methapyrilene	EPA 8270D EPA 8270E
Pronamide	EPA 8270D EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270D EPA 8270E
Benzidine	EPA 8270D EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9040C EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

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Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
	EPA 8270E
delta-BHC	EPA 8081B
Diallate	EPA 8270D
	EPA 8270E
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270D
	EPA 8270E

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Chlorinated Hydrocarbon Pesticides

Kepone	EPA 8270D
	EPA 8270E
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270D
	EPA 8270E
1-Chloronaphthalene	EPA 8270D
	EPA 8270E
2-Chloronaphthalene	EPA 8270D
	EPA 8270E
Hexachlorobenzene	EPA 8270D
	EPA 8270E
Hexachlorobutadiene	EPA 8270D
	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270D
	EPA 8270E
Hexachloroethane	EPA 8270D
	EPA 8270E
Hexachloropropene	EPA 8270D

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Chlorinated Hydrocarbons

Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270D
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270D
	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
	EPA 8270E
Acenaphthylene Low Level	EPA 8270D

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Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthylene Low Level	EPA 8270E
Anthracene Low Level	EPA 8270D
	EPA 8270E
Benzo(a)anthracene Low Level	EPA 8270D
	EPA 8270E
Benzo(a)pyrene Low Level	EPA 8270D
	EPA 8270E
Benzo(b)fluoranthene Low Level	EPA 8270D
	EPA 8270E
Benzo(g,h,i)perylene Low Level	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene Low Level	EPA 8270D
	EPA 8270E
Chrysene Low Level	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene Low Level	EPA 8270D
	EPA 8270E
Fluoranthene Low Level	EPA 8270D
	EPA 8270E
Fluorene Low Level	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
	EPA 8270E
Naphthalene Low Level	EPA 8270D
	EPA 8270E
Phenanthrene Low Level	EPA 8270D
	EPA 8270E

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Low Level Polynuclear Aromatic Hydrocarbons

Pyrene Low Level	EPA 8270D
	EPA 8270E

Metals I

Barium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Cadmium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Calcium, Total	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Copper, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Iron, Total	EPA 6010C
	EPA 6010D
Lead, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Magnesium, Total	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals I

Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Potassium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Silver, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Sodium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Strontium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

Metals II

Aluminum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Antimony, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
	EPA 6010D

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Metals II

Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Molybdenum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Silica, Dissolved	EPA 6010C
	EPA 6010D
Thallium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Tin, Total	EPA 6010C
	EPA 6010D
Titanium, Total	EPA 6010C
	EPA 6010D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C EPA 6010D
Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D EPA 8270E
1,3-Dinitrobenzene	EPA 8270D EPA 8270E
1,4-Naphthoquinone	EPA 8270D EPA 8270E
2,4-Dinitrotoluene	EPA 8270D EPA 8270E
2,6-Dinitrotoluene	EPA 8270D EPA 8270E
4-Dimethylaminoazobenzene	EPA 8270D EPA 8270E
4-Nitroquinoline-1-oxide	EPA 8270D EPA 8270E

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
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NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Nitroaromatics and Isophorone

Isophorone	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 8270D
	EPA 8270E
Pyridine	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodimethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-butylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270D
	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270D
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270D
	EPA 8270E
N-nitrosomorpholine	EPA 8270D
	EPA 8270E
N-nitrosopiperidine	EPA 8270D
	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270D

Nutrients

Nitrate (as N)	EPA 9056A
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Nutrients

Nitrite (as N) EPA 9056A

Organophosphate Pesticides

Dimethoate EPA 8270D

EPA 8270E

Disulfoton EPA 8270D

EPA 8270E

Famphur EPA 8270D

EPA 8270E

Parathion ethyl EPA 8270D

EPA 8270E

Parathion methyl EPA 8270D

EPA 8270E

Phorate EPA 8270D

EPA 8270E

Sulfotepp EPA 8270D

EPA 8270E

Thionazin EPA 8270D

EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics EPA 8015C

Gasoline Range Organics EPA 8015C

Phthalate Esters

Benzyl butyl phthalate EPA 8270D

EPA 8270E

Bis(2-ethylhexyl) phthalate EPA 8270D

EPA 8270E

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Phthalate Esters

Diethyl phthalate	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 8270D
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

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Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D EPA 8270E
3-Methylcholanthrene	EPA 8270D EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D EPA 8270E
Acenaphthene	EPA 8270D EPA 8270E
Acenaphthylene	EPA 8270D EPA 8270E
Anthracene	EPA 8270D EPA 8270E
Benzo(a)anthracene	EPA 8270D EPA 8270E
Benzo(a)pyrene	EPA 8270D EPA 8270E
Benzo(b)fluoranthene	EPA 8270D EPA 8270E
Benzo(g,h,i)perylene	EPA 8270D EPA 8270E
Benzo(k)fluoranthene	EPA 8270D EPA 8270E
Chrysene	EPA 8270D EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270D EPA 8270E
Fluoranthene	EPA 8270D

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Polynuclear Aromatic Hydrocarbons

Fluoranthene	EPA 8270E
Fluorene	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270D
	EPA 8270E
Naphthalene	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 8270D
	EPA 8270E
Pyrene	EPA 8270D
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 8270D



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Priority Pollutant Phenols

2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8270D
	EPA 8270E
Phenol	EPA 8270D
	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D

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Semi-Volatile Organics

1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270D
	EPA 8270E
2-Picoline	EPA 8270D
	EPA 8270E
4-Amino biphenyl	EPA 8270D
	EPA 8270E
Acetophenone	EPA 8270D
	EPA 8270E
Aramite	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Ethyl methanesulfonate	EPA 8270D
	EPA 8270E
Isosafrole	EPA 8270D
	EPA 8270E
Methyl methanesulfonate	EPA 8270D
	EPA 8270E

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate	EPA 8270D
	EPA 8270E
Phenacetin	EPA 8270D
	EPA 8270E
Safrole	EPA 8270D
	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,2-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,3-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,4-Dichlorobenzene	EPA 8260D
	EPA 8260C
2-Chlorotoluene	EPA 8260D
	EPA 8260C
4-Chlorotoluene	EPA 8260D
	EPA 8260C
Benzene	EPA 8260D
	EPA 8260C
Bromobenzene	EPA 8260D
	EPA 8260C

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Volatile Aromatics

Chlorobenzene	EPA 8260D
	EPA 8260C
Ethyl benzene	EPA 8260D
	EPA 8260C
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D
	EPA 8260C
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
n-Butylbenzene	EPA 8260D
	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
Total Xylenes	EPA 8260D

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Volatile Aromatics

Total Xylenes EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane EPA 8260D

EPA 8260C

1,1,1-Trichloroethane EPA 8260D

EPA 8260C

1,1,2,2-Tetrachloroethane EPA 8260D

EPA 8260C

1,1,2-Trichloro-1,2,2-Trifluoroethane EPA 8260D

EPA 8260C

1,1,2-Trichloroethane EPA 8260D

EPA 8260C

1,1-Dichloroethane EPA 8260D

EPA 8260C

1,1-Dichloroethene EPA 8260D

EPA 8260C

1,1-Dichloropropene EPA 8260D

EPA 8260C

1,2,3-Trichloropropane EPA 8260D

EPA 8260C

1,2-Dibromo-3-chloropropane EPA 8260D

EPA 8260C

1,2-Dibromoethane EPA 8260D

EPA 8260C

1,2-Dichloroethane EPA 8260D

EPA 8260C

1,2-Dichloropropane EPA 8260D

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Volatile Halocarbons

1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260D
	EPA 8260C
2,2-Dichloropropane	EPA 8260D
	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D
	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D
	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 8260D
	EPA 8260C
Bromomethane	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 8260D
	EPA 8260C
Chloroethane	EPA 8260D
	EPA 8260C
Chloroform	EPA 8260D
	EPA 8260C
Chloromethane	EPA 8260D
	EPA 8260C

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Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 8260D EPA 8260C
cis-1,3-Dichloropropene	EPA 8260D EPA 8260C
Dibromochloromethane	EPA 8260D EPA 8260C
Dibromomethane	EPA 8260D EPA 8260C
Dichlorodifluoromethane	EPA 8260D EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260D EPA 8260C
Methyl iodide	EPA 8260D EPA 8260C
Methylene chloride	EPA 8260D EPA 8260C
Tetrachloroethene	EPA 8260D EPA 8260C
trans-1,2-Dichloroethene	EPA 8260D EPA 8260C
trans-1,3-Dichloropropene	EPA 8260D EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260D EPA 8260C
Trichloroethene	EPA 8260D EPA 8260C
Trichlorofluoromethane	EPA 8260D

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Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Halocarbons

Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260D
	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260D
	EPA 8260C
	EPA 8270D
	EPA 8270E
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
2-Nitropropane	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C
Acetonitrile	EPA 8260D
	EPA 8260C
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Di-ethyl ether	EPA 8260D
	EPA 8260C
Ethylene Glycol	EPA 8015C



Serial No.: 68404

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Organics

Isobutyl alcohol	EPA 8260D
	EPA 8260C
Isopropanol	EPA 8260D
	EPA 8260C
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
n-Butanol	EPA 8260D
	EPA 8260C
o-Toluidine	EPA 8270D
	EPA 8270E
Propionitrile	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
Vinyl acetate	EPA 8260D
	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Sample Preparation Methods

EPA 3050B
EPA 3546
EPA 3060A
EPA 3541



Serial No.: 68404

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NY Lab Id No: 10145

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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8



Serial No.: 68405

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American Premier Underwriters, Inc.

One East Fourth Street
Cincinnati, Ohio 45202
Telephone (513) 579-6616
Facsimile (513) 579-0108

Michael L. Cioffi
Vice President and
Assistant General Counsel

May 25, 1995

Effective June 1, 1995, I, Mr. Michael Cioffi, Vice President and Assistant General Counsel of American Premier Underwriters, Inc., hereby authorize Mr. John M. Falbo of NES, Inc. to procure samples of the wastewater discharge for analysis pursuant to the wastewater discharge permit granted by the Erie County Department of Environment and Planning on May xx, 1995 (Permit #95-05-E1016). I also authorized Mr. Mark Cambra of NES, Inc. to prepare and submit the monitoring report on my behalf.



Mr. Michael Cioffi
Vice President and Assistant General Counsel
American Premier Underwriters, Inc.

May 26, 1995

Date

APPENDIX C
4Q24 Discharge Report



December 11, 2024
OP- 4725

Erie County Department of Environment and Planning
Division of Sewerage Management
Erie County Sewer District #6
260 Lehigh Avenue
Lackawanna, New York 14218

Attn: Laura Surdej
Industrial Wastewater Specialist

Subject: Quarterly Discharge Monitoring Report Submittal
(4th Quarter: October to December 2024)
Union Road Site, 333 Losson Road, Cheektowaga, Erie County, NY
Inactive Hazardous Waste Disposal Site No. 915128

Ref: Authorization to Discharge Under Erie County/Buffalo Pollutant
Discharge Elimination System, Permit Number 19-08-E1016

Dear Ms. Surdej:

As required by Part I, Section B of the referenced permit, Unicorn Management Consultants, LLC (UMC) is submitting the Quarterly Discharge Monitoring Report (4th Quarter: October to December 2024) for the subject site.

The information required for the Discharge Monitoring Report from the subject site is enclosed as follows:

- A summary of analyses with laboratory data which includes date, time, and method used for each analysis;
- Chain of Custody forms;
- Daily Sampling Activity Sheets;
- Analysis Summary Table;
- Quantity of water discharged to the sanitary sewer for the 4th Quarter 2024;
- Conversion of mg/l to lbs/gal for wastewater discharge mass calculations;
- Map indicating the location of the sampling point (Figure 1);
- Certification from the NYS Department of Health for ALS Group USA Corp. dba ALS Environmental (Formerly Columbia Analytical Services, Inc.); and
- A copy of the certification letter, dated May 25, 1995, from American Premier Underwriters, Inc. which authorizes Unicorn Management Consultants, to collect samples and prepare the monitoring reports for the referenced permit.

Ms. Surdej
OP- 4725
Page 2



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the systems, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you should have any questions or comments, please do not hesitate to call me at 203-205-9000, ext. 13.

Sincerely,
Unicorn Management Consultants, LLC

Michael O'Connor
Manager of Environmental Projects
Union Road Remediation Project

Enclosures

cc: M. Szilagyi
M. Kuczka (electronic copy only)
M. Hill, Esq. (electronic copy only)
L. Lackner (electronic copy only)



December 02, 2024

Service Request No:R2411752

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory November 14, 2024
For your reference, these analyses have been assigned our service request number **R2411752**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2411752
Date Received: 11/14/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/14/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 12/02/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 4Q24 Effluent			Lab ID: R2411752-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total Suspended (TSS)	3.7			1.0	mg/L	SM 2540 D-2015



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2411752

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2411752-001	4Q24 Effluent	11/14/2024	0920

[illegible]



R2411752

Unicorn Management Consultants
Union Rd #2011-200

5



Cooler Receipt and Preservation Check Form

Project/Client _____ Folder Number _____

Cooler received on 11/14/24 by RDACOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Did VOA vials have sig* bubbles?	Y N <u>NA</u>
5b	Sig* bubbles: Alk? Y N <u>NA</u> Sulfide? Y N <u>NA</u>	
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8: Temperature Readings Date: 11/14/24 Time: 1707 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>10.3</u>						
Within 0-6°C?	<u>Y</u> <u>NA</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted: _____ Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval: _____ Client aware at drop-off: _____ Client notified by: _____

All samples held in storage location: ROC by RDA on 11/14/24 at 1711
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 11/15/24 Time: 1338 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO Sample time doesn't match
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
>12		NaOH								
<2	<u>226322</u>	HNO ₃	<u>✓</u>		<u>label</u>					
<2		H ₂ SO ₄	<u>✓</u>		<u>24604104 7/20</u>					
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate								
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 092324-2AES, 081924-1EKP, 090924-2EFC
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2411752

Sample Name: 4Q24 Effluent
Lab Code: R2411752-001
Sample Matrix: Water

Date Collected: 11/14/24
Date Received: 11/14/24

Analysis Method

1664B
420.4
6010D
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

SZOGBY
CWOODS
NMANSEN
HCASTROVINCI



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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www.alsglobal.com



Metals

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 4Q24 Effluent
Lab Code: R2411752-001

Service Request: R2411752
Date Collected: 11/14/24 09:20
Date Received: 11/14/24 16:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	ND U	mg/L	0.0050	1	11/19/24 18:22	11/18/24	



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 4Q24 Effluent
Lab Code: R2411752-001

Service Request: R2411752
Date Collected: 11/14/24 09:20
Date Received: 11/14/24 16:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.7	1	11/26/24 09:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	11/19/24 12:22	
Solids, Total Suspended (TSS)	SM 2540 D-2015	3.7	mg/L	1.0	1	11/20/24 13:00	



QC Summary Forms

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www.alsglobal.com



Metals

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2411752-MB

Service Request: R2411752
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	ND U	mg/L	0.0050	1	11/19/24 17:23	11/18/24	

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411752
Date Analyzed: 11/19/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2411752-LCS			R2411752-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Total	6010D	0.514	0.500	103	0.516	0.500	103	80-120	<1	20



General Chemistry

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2411752-MB

Service Request: R2411752
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.0	1	11/26/24 09:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	11/19/24 11:44	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	11/20/24 13:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411752
Date Analyzed: 11/19/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2411752-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0402	0.0400	100	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411752
Date Analyzed: 11/20/24 - 11/26/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2411752-LCS1

Duplicate Lab Control Sample
R2411752-DLCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	36.5	40.3	91	35.9	40.3	89	78-114	2	18
Solids, Total Suspended (TSS)	SM 2540 D-2015	170	214	79 *	184	214	86	80-120	8	10



Summary of Sampling Activity

A. Sample Point: Discharge pipe in wet well

B. Date: November 14, 2024

C. Time, temperature, and pH of samples:
(Pump started at 1115)

First Sample:	1130	52.42 °F	6.99 pH
Second Sample:	1145	52.70 °F	6.84 pH
Third Sample:	1200	52.48 °F	6.94 pH
Fourth Sample:	1215	52.09 °F	7.01 pH

(Pump stopped at 1215)

Total run time: 60-Minutes

D. Total water consumption during sampling period:
Meter reading at start: 228,658-gallons
Meter reading at stop: 229,400-gallons

Flow for the 60-minutes is 742 gallons.

E. Physical observations (sight, smell, etc.) of the discharge during sample effort: Water is clear and odorless throughout the sampling effort.

F. Weather conditions during entire sampling period: Sunny, ~45 °F

G. Miscellaneous notes: Water level in the sump dropped below the low-level shut-off at 1140. The sump was manually deactivated and reactivated to take composite samples until 1215 when the fourth sample was taken.

H. UMC Field tech: Rigby Michaelsen and Tobias Sisco



**ANALYSIS SUMMARY TABLE
QUARTERLY
DISCHARGE SAMPLING EVENT**

November 14, 2024

DATE	Composite TIME	Ave. Temp °F	ANALYTES					
			Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD Total	FLOW
BSA LIMITS			5 TO 12	250 mg/L	100 mg/L	20 mg/L 0.25 LBS	65 mg/L 0.83 LBS	NONE
11/14/2024	1220	52	6.95	3.7	4.7 U	0.005 U	0.005 U	742
MASS FOR SAMPLE VOLUME						0.000	0.000	

MASS is reported in pounds
concentrations are reported in mg/L (unless otherwise noted)

FLOW is reported in gallons

ND = analyte was not detected

NOTE: If analyte was not detected, the detection limit was used to calculate mass loading (reported in pounds)

Detection Limits 1	Total Suspended Solids =	1.0	mg/L
	Total Extractable Hydrocarbons =	4.7	mg/L
	Total Phenols =	0.005	mg/L
	Total Lead =	0.005	mg/L



2024 Discharge Summary

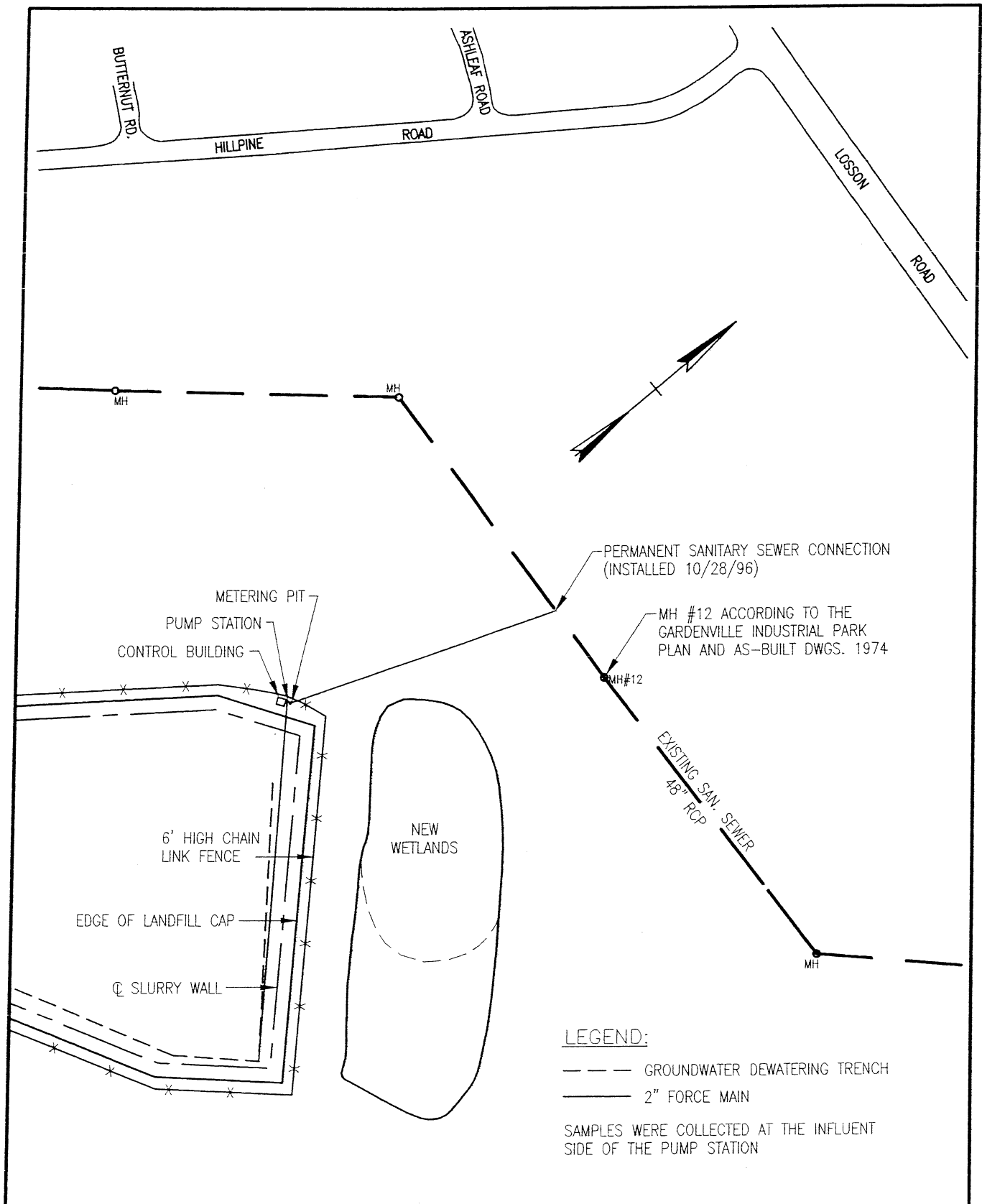
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q24	3/7/2024	173,601	7,643
2Q24	5/1/2024	188,976	15,375
3Q24	8/20/2024	214,185	25,209
4Q24	11/14/2024	229,400	15,215
		Yearly Total Gallons	63,442




Conversion Formula

Conversion of mg/L to lbs/gal for Wastewater Discharge:

$$\frac{1mg}{L} * \frac{1g}{1000mg} * \frac{1Kg}{1000g} * \frac{2.205lbs}{1Kg} * \frac{3.78L}{1gal} = \frac{1lb}{119.977gal}$$



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2045-100	
NO.	DATE				FILENAME: 2045100E	SCALE: 1"=200'
		DRAWING	LANDFILL DEWATERING LOCATION		DATE: 11/20/01	BY: AD
					FIGURE # 1	CK:

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Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)

Disinfection By-products

Bromide EPA 300.0 Rev. 2.1

Dissolved Gases

Acetylene RSK-175
Ethane RSK-175
Ethene (Ethylene) RSK-175
Methane RSK-175
Propane RSK-175

Fuel Additives

Methyl tert-butyl ether EPA 524.2
Naphthalene EPA 524.2

Metals I

Arsenic, Total EPA 200.8 Rev. 5.4
Barium, Total EPA 200.8 Rev. 5.4
Cadmium, Total EPA 200.8 Rev. 5.4
Chromium, Total EPA 200.7 Rev. 4.4
Copper, Total EPA 200.8 Rev. 5.4
Iron, Total EPA 200.7 Rev. 4.4
Lead, Total EPA 200.8 Rev. 5.4
Manganese, Total EPA 200.7 Rev. 4.4
Mercury, Total EPA 245.1 Rev. 3.0
Selenium, Total EPA 200.8 Rev. 5.4
Silver, Total EPA 200.7 Rev. 4.4

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Metals I

Silver, Total	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Miscellaneous

1,4-Dioxane	EPA 522
Organic Carbon, Total	SM 21-23 5310B (-00)
Turbidity	EPA 180.1 Rev. 2.0
UV 254	SM 21-23 5910B (-00,-11)

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
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Non-Metals

Calcium Hardness	SM 18-22 2340B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Corrosivity	SM 18-22 2330
Cyanide	Kelada 01, Rev. 1.2
	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	EPA 365.1 Rev. 2.0
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	EPA 120.1 Rev. 1982
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2

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Volatile Aromatics

1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2

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Volatile Halocarbons

1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2



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Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 8260C
	EPA 624.1
Ethyl methacrylate	EPA 8260D
	EPA 8260C
Methyl acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
	EPA 8270E
1,4-Phenylenediamine	EPA 8270D
	EPA 8270E
1-Naphthylamine	EPA 8270D
	EPA 8270E
2-Naphthylamine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D

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Amines

4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E
5-Nitro-o-toluidine	EPA 8270D
	EPA 8270E
Aniline	EPA 625.1
	EPA 8270D
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270D
	EPA 8270E
Diphenylamine	EPA 8270D
	EPA 8270E
Methapyrilene	EPA 8270D
	EPA 8270E
Pronamide	EPA 8270D
	EPA 8270E
Propionitrile	EPA 8260D
	EPA 8260C
Pyridine	EPA 625.1
	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270D
	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270D
	EPA 8270E

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Benzidines

Benzidine	EPA 625.1
	EPA 8270D
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270D
	EPA 8270E
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270D
	EPA 8270E
Dieldrin	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270D
	EPA 8270E
Kepone	EPA 8270D
	EPA 8270E
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

PCNB	EPA 8270D EPA 8270E
Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270D EPA 8270E
2-Chloronaphthalene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorobenzene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorobutadiene	EPA 625.1 EPA 8270D EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270D EPA 8270E
Hexachloroethane	EPA 625.1 EPA 8270D EPA 8270E

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Chlorinated Hydrocarbons

Hexachloropropene	EPA 8270D
	EPA 8270E
Pentachlorobenzene	EPA 8270D
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8151A
	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

Dissolved Gases

Acetylene	RSK-175
Ethane	RSK-175
Ethene (Ethylene)	RSK-175
Methane	RSK-175
Propane	RSK-175

Fuel Oxygenates

Di-isopropyl ether	EPA 8260D
	EPA 8260C

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Fuel Oxygenates

Di-isopropyl ether	EPA 8015C
Ethanol	EPA 8015C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260D
	EPA 8260C

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270D

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Haloethers

Bis(2-chloroethyl)ether EPA 8270E

Low Level Polynuclear Aromatics

Acenaphthene Low Level EPA 8270D

EPA 8270E

Acenaphthylene Low Level EPA 8270D

EPA 8270E

Anthracene Low Level EPA 8270D

EPA 8270E

Benzo(a)anthracene Low Level EPA 8270D

EPA 8270E

Benzo(a)pyrene Low Level EPA 8270D

EPA 8270E

Benzo(b)fluoranthene Low Level EPA 8270D

EPA 8270E

Benzo(g,h,i)perylene Low Level EPA 8270D

EPA 8270E

Benzo(k)fluoranthene Low Level EPA 8270D

EPA 8270E

Chrysene Low Level EPA 8270D

EPA 8270E

Dibenzo(a,h)anthracene Low Level EPA 8270D

EPA 8270E

Fluoranthene Low Level EPA 8270D

EPA 8270E

Fluorene Low Level EPA 8270D

EPA 8270E

Indeno(1,2,3-cd)pyrene Low Level EPA 8270D

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Low Level Polynuclear Aromatics

Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E
Naphthalene Low Level	EPA 8270D
	EPA 8270E
Phenanthrene Low Level	EPA 8270D
	EPA 8270E
Pyrene Low Level	EPA 8270D
	EPA 8270E

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals I

Chromium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Iron, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Lead, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
Magnesium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Nickel, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)

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Metals I

Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Sodium, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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Metals II

Antimony, Total	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
Beryllium, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Chromium VI	EPA 6010D
	EPA 6020A
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Mercury, Low Level	EPA 218.6, Rev. 3.3 (1994)
	EPA 7196A
	EPA 7199
Mercury, Total	SM 3500-Cr B-2011
	EPA 1631E
	EPA 245.1, Rev. 3.0 (1994)
Selenium, Total	EPA 7470A
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals II

Selenium, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D EPA 6020A EPA 6020B EPA 200.8, Rev. 5.4 (1994)

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Metals III

Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020A
	EPA 6020B
Tin, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Titanium, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
Uranium (Mass)	EPA 6010D
	EPA 6020A
	EPA 6020B

Mineral

Alkalinity	SM 2320B-2011
Calcium Hardness	SM 2340B-2011
Chloride	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Hardness, Total	SM 2340C-2011
	SM 2340B-2011
Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A

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Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010C EPA 6010D
Bromide	EPA 300.0, Rev. 2.1 (1993) EPA 9056A
Color	SM 2120B-2011
Corrosivity	SM 2330-2016
Cyanide, Available	SM 4500-CN G-2016
Cyanide, Total	Kelada-01 SM 4500-CN E-2016 EPA 335.4, Rev. 1.0 (1993) EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310B-2014 EPA 9060A
Phenols	EPA 420.4, Rev. 1.0 (1993) EPA 9066
Specific Conductance	EPA 120.1 (Rev. 1982)
Sulfide (as S)	SM 4500-S2- F-2011 EPA 9034
Turbidity	EPA 180.1, Rev. 2.0 (1993)

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D EPA 8270E
1,3-Dinitrobenzene	EPA 8270D

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Nitroaromatics and Isophorone

1,3-Dinitrobenzene	EPA 8270E
1,4-Naphthoquinone	EPA 8270D
	EPA 8270E
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitroquinoline-1-oxide	EPA 8270D
	EPA 8270E
Isophorone	EPA 625.1
	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 625.1
	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodimethylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-butylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270D

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Nitrosoamines

N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270D
	EPA 8270E
N-nitrosomorpholine	EPA 8270D
	EPA 8270E
N-nitrosopiperidine	EPA 8270D
	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270D
	EPA 8270E

Nutrient

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Orthophosphate (as P)	EPA 365.1, Rev. 2.0 (1993)
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)

Organophosphate Pesticides

Atrazine	EPA 8270D
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Organophosphate Pesticides

Atrazine	EPA 8270E
Dimethoate	EPA 8270D
	EPA 8270E
Disulfoton	EPA 8270D
	EPA 8270E
Famphur	EPA 8270D
	EPA 8270E
Parathion ethyl	EPA 8270D
	EPA 8270E
Parathion methyl	EPA 8270D
	EPA 8270E
Phorate	EPA 8270D
	EPA 8270E
Sulfotepp	EPA 8270D
	EPA 8270E
Thionazin	EPA 8270D
	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C
Gasoline Range Organics	EPA 8015C

Phthalate Esters

Benzyl butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270D

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Phthalate Esters

Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A
	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
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Polychlorinated Biphenyls

Aroclor 1260 (PCB-1260)	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270D	EPA 8270E
3-Methylcholanthrene	EPA 8270D	EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D	EPA 8270E
Acenaphthene	EPA 625.1	EPA 8270D
	EPA 8270E	
Acenaphthylene	EPA 625.1	EPA 8270D
	EPA 8270E	
Anthracene	EPA 625.1	EPA 8270D
	EPA 8270E	
Benzo(a)anthracene	EPA 625.1	EPA 8270D
	EPA 8270E	
Benzo(a)pyrene	EPA 625.1	EPA 8270D
	EPA 8270E	
Benzo(b)fluoranthene	EPA 625.1	EPA 8270D

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Polynuclear Aromatics

Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270D

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Polynuclear Aromatics

Phenanthrene	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E

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Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Cresols, Total	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenol	EPA 625.1

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Priority Pollutant Phenols

Phenol	EPA 8270D
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
2-Methylnaphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Picoline	EPA 8270D
	EPA 8270E
4-Amino biphenyl	EPA 8270D
	EPA 8270E
Acetophenone	EPA 625.1
	EPA 8270D

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Semi-Volatile Organics

Acetophenone	EPA 8270E
alpha-Terpineol	EPA 625.1
Aramite	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Ethyl methanesulfonate	EPA 8270D
	EPA 8270E
Isosafrole	EPA 8270D
	EPA 8270E
Methyl methanesulfonate	EPA 8270D
	EPA 8270E
O,O,O-Triethyl phosphorothioate	EPA 8270D
	EPA 8270E
p-Dimethylaminoazobenzene	EPA 8270D
	EPA 8270E
Phenacetin	EPA 8270D
	EPA 8270E
Safrole	EPA 8270D

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Semi-Volatile Organics

Safrole EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D EPA 8260C
1,2-Dichlorobenzene	EPA 8260D EPA 8260C EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260D EPA 8260C
1,3-Dichlorobenzene	EPA 8260D EPA 8260C EPA 624.1
1,4-Dichlorobenzene	EPA 8260D EPA 8260C EPA 624.1
2-Chlorotoluene	EPA 8260D EPA 8260C
4-Chlorotoluene	EPA 8260D EPA 8260C
Benzene	EPA 8260D EPA 8260C EPA 624.1
Bromobenzene	EPA 8260D EPA 8260C
Chlorobenzene	EPA 8260D

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Volatile Aromatics

Chlorobenzene	EPA 8260C EPA 624.1
Ethyl benzene	EPA 8260D EPA 8260C EPA 624.1
Isopropylbenzene	EPA 8260D EPA 8260C
m/p-Xylenes	EPA 8260D EPA 8260C EPA 624.1
Naphthalene, Volatile	EPA 8260D EPA 8260C EPA 624.1
n-Butylbenzene	EPA 8260D EPA 8260C
n-Propylbenzene	EPA 8260D EPA 8260C
o-Xylene	EPA 8260D EPA 8260C EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D EPA 8260C
sec-Butylbenzene	EPA 8260D EPA 8260C
Styrene	EPA 8260D EPA 8260C EPA 624.1

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Volatile Aromatics

tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 8260C
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260D

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Volatile Halocarbons

1,1-Dichloroethene	EPA 8260C EPA 624.1
1,1-Dichloropropene	EPA 8260D EPA 8260C
1,2,3-Trichloropropane	EPA 8260D EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D EPA 8260C
1,2-Dibromoethane	EPA 8260D EPA 8260C
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260D EPA 8260C
1,2-Dichloroethane	EPA 8260D EPA 8260C EPA 624.1
1,2-Dichloropropane	EPA 8260D EPA 8260C EPA 624.1
1,3-Dichloropropane	EPA 8260D EPA 8260C
2,2-Dichloropropane	EPA 8260D EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D EPA 8260C EPA 624.1

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Volatile Halocarbons

3-Chloropropene (Allyl chloride)	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 624.1
	EPA 8260D
	EPA 8260C
Bromomethane	EPA 624.1
	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloroethane	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloroform	EPA 624.1
	EPA 8260D
	EPA 8260C
Chloromethane	EPA 624.1
	EPA 8260D
	EPA 8260C
cis-1,2-Dichloroethene	EPA 624.1
	EPA 8260D
	EPA 8260C

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Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260D
	EPA 8260C
Dichlorodifluoromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C
Methyl iodide	EPA 8260D
	EPA 8260C
Methylene chloride	EPA 8260D
	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C

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Volatile Halocarbons

trans-1,3-Dichloropropene	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D EPA 8260C
Trichloroethene	EPA 8260D EPA 8260C EPA 624.1
Trichlorofluoromethane	EPA 8260D EPA 8260C EPA 624.1
Vinyl chloride	EPA 8260D EPA 8260C EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D EPA 8260C EPA 8270D EPA 8270D SIM EPA 8270E EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D EPA 8260C
2-Hexanone	EPA 8260D EPA 8260C
2-Nitropropane	EPA 8260D EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D EPA 8260C



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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatiles Organics

4-Methyl-2-Pentanone	EPA 624.1
Acetone	EPA 8260D EPA 8260C EPA 624.1
Acetonitrile	EPA 8260D EPA 8260C EPA 624.1
Carbon Disulfide	EPA 8260D EPA 8260C
Cyclohexane	EPA 8260D EPA 8260C
Di-ethyl ether	EPA 8260D EPA 8260C
Ethyl Acetate	EPA 8260D EPA 8260C EPA 8015C
Ethylene Glycol	EPA 8015C
Isobutyl alcohol	EPA 8260D EPA 8260C EPA 8015C
Isopropanol	EPA 8260D EPA 8260C
Methanol	EPA 8015C
Methyl acetate	EPA 8260D EPA 8260C
Methyl cyclohexane	EPA 8260D EPA 8260C

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Volatiles Organics

n-Butanol	EPA 8260D
	EPA 8260C
o-Toluidine	EPA 8270D
	EPA 8270E
Propylene Glycol	EPA 8015C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
	EPA 624.1
Vinyl acetate	EPA 8260D
	EPA 8260C
	EPA 624.1

Sample Preparation Methods

EPA 5030C
EPA 200.2
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3535A



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 8260C
Acrylonitrile	EPA 8260D
	EPA 8260C
Ethyl methacrylate	EPA 8260D
	EPA 8260C
Methyl acrylonitrile	EPA 8260D
	EPA 8260C
Methyl methacrylate	EPA 8260D
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
	EPA 8270E
1,4-Phenylenediamine	EPA 8270D
	EPA 8270E
1-Naphthylamine	EPA 8270D
	EPA 8270E
2-Naphthylamine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D
	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E

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Amines

5-Nitro-o-toluidine	EPA 8270D EPA 8270E
Aniline	EPA 8270D EPA 8270E
Carbazole	EPA 8270D EPA 8270E
Diphenylamine	EPA 8270D EPA 8270E
Methapyrilene	EPA 8270D EPA 8270E
Pronamide	EPA 8270D EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270D EPA 8270E
Benzidine	EPA 8270D EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9040C EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

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Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270D
	EPA 8270E
delta-BHC	EPA 8081B
Diallate	EPA 8270D
	EPA 8270E
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270D
	EPA 8270E

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Chlorinated Hydrocarbon Pesticides

Kepone	EPA 8270D
	EPA 8270E
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270D
	EPA 8270E
1-Chloronaphthalene	EPA 8270D
	EPA 8270E
2-Chloronaphthalene	EPA 8270D
	EPA 8270E
Hexachlorobenzene	EPA 8270D
	EPA 8270E
Hexachlorobutadiene	EPA 8270D
	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270D
	EPA 8270E
Hexachloroethane	EPA 8270D
	EPA 8270E
Hexachloropropene	EPA 8270D

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Chlorinated Hydrocarbons

Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270D
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Dinoseb	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270D
	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
	EPA 8270E
Acenaphthylene Low Level	EPA 8270D

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Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthylene Low Level	EPA 8270E
Anthracene Low Level	EPA 8270D
	EPA 8270E
Benzo(a)anthracene Low Level	EPA 8270D
	EPA 8270E
Benzo(a)pyrene Low Level	EPA 8270D
	EPA 8270E
Benzo(b)fluoranthene Low Level	EPA 8270D
	EPA 8270E
Benzo(g,h,i)perylene Low Level	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene Low Level	EPA 8270D
	EPA 8270E
Chrysene Low Level	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene Low Level	EPA 8270D
	EPA 8270E
Fluoranthene Low Level	EPA 8270D
	EPA 8270E
Fluorene Low Level	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D
	EPA 8270E
Naphthalene Low Level	EPA 8270D
	EPA 8270E
Phenanthrene Low Level	EPA 8270D
	EPA 8270E

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Low Level Polynuclear Aromatic Hydrocarbons

Pyrene Low Level	EPA 8270D
	EPA 8270E

Metals I

Barium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Cadmium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Calcium, Total	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Copper, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Iron, Total	EPA 6010C
	EPA 6010D
Lead, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Magnesium, Total	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

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Metals I

Nickel, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Potassium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Silver, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Sodium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Strontium, Total	EPA 6010C
	EPA 6010D
	EPA 6010D

Metals II

Aluminum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Antimony, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Chromium VI	EPA 7199
Lithium, Total	EPA 6010C
	EPA 6010D

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Metals II

Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6010D
	EPA 6020A

Metals III

Cobalt, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Molybdenum, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Silica, Dissolved	EPA 6010C
	EPA 6010D
Thallium, Total	EPA 6010C
	EPA 6010D
	EPA 6020A
Tin, Total	EPA 6010C
	EPA 6010D
Titanium, Total	EPA 6010C
	EPA 6010D

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Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C EPA 6010D
Cyanide, Total	EPA 9012B
Organic Carbon, Total	Lloyd Kahn Method
Phenols	EPA 9066
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

1,3,5-Trinitrobenzene	EPA 8270D EPA 8270E
1,3-Dinitrobenzene	EPA 8270D EPA 8270E
1,4-Naphthoquinone	EPA 8270D EPA 8270E
2,4-Dinitrotoluene	EPA 8270D EPA 8270E
2,6-Dinitrotoluene	EPA 8270D EPA 8270E
4-Dimethylaminoazobenzene	EPA 8270D EPA 8270E
4-Nitroquinoline-1-oxide	EPA 8270D EPA 8270E

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Nitroaromatics and Isophorone

Isophorone	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 8270D
	EPA 8270E
Pyridine	EPA 8270D
	EPA 8270E

Nitrosoamines

N-Nitrosodiethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodimethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-butylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270D
	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270D
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270D
	EPA 8270E
N-nitrosomorpholine	EPA 8270D
	EPA 8270E
N-nitrosopiperidine	EPA 8270D
	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270D

Nutrients

Nitrate (as N)	EPA 9056A
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Nutrients

Nitrite (as N) EPA 9056A

Organophosphate Pesticides

Dimethoate EPA 8270D

EPA 8270E

Disulfoton EPA 8270D

EPA 8270E

Famphur EPA 8270D

EPA 8270E

Parathion ethyl EPA 8270D

EPA 8270E

Parathion methyl EPA 8270D

EPA 8270E

Phorate EPA 8270D

EPA 8270E

Sulfotepp EPA 8270D

EPA 8270E

Thionazin EPA 8270D

EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics EPA 8015C

Gasoline Range Organics EPA 8015C

Phthalate Esters

Benzyl butyl phthalate EPA 8270D

EPA 8270E

Bis(2-ethylhexyl) phthalate EPA 8270D

EPA 8270E

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Phthalate Esters

Diethyl phthalate	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 8270D
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

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Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270D EPA 8270E
3-Methylcholanthrene	EPA 8270D EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D EPA 8270E
Acenaphthene	EPA 8270D EPA 8270E
Acenaphthylene	EPA 8270D EPA 8270E
Anthracene	EPA 8270D EPA 8270E
Benzo(a)anthracene	EPA 8270D EPA 8270E
Benzo(a)pyrene	EPA 8270D EPA 8270E
Benzo(b)fluoranthene	EPA 8270D EPA 8270E
Benzo(g,h,i)perylene	EPA 8270D EPA 8270E
Benzo(k)fluoranthene	EPA 8270D EPA 8270E
Chrysene	EPA 8270D EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270D EPA 8270E
Fluoranthene	EPA 8270D

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Polynuclear Aromatic Hydrocarbons

Fluoranthene	EPA 8270E
Fluorene	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270D
	EPA 8270E
Naphthalene	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 8270D
	EPA 8270E
Pyrene	EPA 8270D
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E
2-Chlorophenol	EPA 8270D



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Priority Pollutant Phenols

2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8270D
	EPA 8270E
Phenol	EPA 8270D
	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D

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Semi-Volatile Organics

1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270D
	EPA 8270E
2-Picoline	EPA 8270D
	EPA 8270E
4-Amino biphenyl	EPA 8270D
	EPA 8270E
Acetophenone	EPA 8270D
	EPA 8270E
Aramite	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Ethyl methanesulfonate	EPA 8270D
	EPA 8270E
Isosafrole	EPA 8270D
	EPA 8270E
Methyl methanesulfonate	EPA 8270D
	EPA 8270E

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate	EPA 8270D
	EPA 8270E
Phenacetin	EPA 8270D
	EPA 8270E
Safrole	EPA 8270D
	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,2-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,3-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,4-Dichlorobenzene	EPA 8260D
	EPA 8260C
2-Chlorotoluene	EPA 8260D
	EPA 8260C
4-Chlorotoluene	EPA 8260D
	EPA 8260C
Benzene	EPA 8260D
	EPA 8260C
Bromobenzene	EPA 8260D
	EPA 8260C

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Volatile Aromatics

Chlorobenzene	EPA 8260D
	EPA 8260C
Ethyl benzene	EPA 8260D
	EPA 8260C
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D
	EPA 8260C
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
n-Butylbenzene	EPA 8260D
	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
Total Xylenes	EPA 8260D

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Volatile Aromatics

Total Xylenes EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane EPA 8260D

EPA 8260C

1,1,1-Trichloroethane EPA 8260D

EPA 8260C

1,1,2,2-Tetrachloroethane EPA 8260D

EPA 8260C

1,1,2-Trichloro-1,2,2-Trifluoroethane EPA 8260D

EPA 8260C

1,1,2-Trichloroethane EPA 8260D

EPA 8260C

1,1-Dichloroethane EPA 8260D

EPA 8260C

1,1-Dichloroethene EPA 8260D

EPA 8260C

1,1-Dichloropropene EPA 8260D

EPA 8260C

1,2,3-Trichloropropane EPA 8260D

EPA 8260C

1,2-Dibromo-3-chloropropane EPA 8260D

EPA 8260C

1,2-Dibromoethane EPA 8260D

EPA 8260C

1,2-Dichloroethane EPA 8260D

EPA 8260C

1,2-Dichloropropane EPA 8260D

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Volatile Halocarbons

1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260D
	EPA 8260C
2,2-Dichloropropane	EPA 8260D
	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D
	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D
	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260D
	EPA 8260C
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
Bromoform	EPA 8260D
	EPA 8260C
Bromomethane	EPA 8260D
	EPA 8260C
Carbon tetrachloride	EPA 8260D
	EPA 8260C
Chloroethane	EPA 8260D
	EPA 8260C
Chloroform	EPA 8260D
	EPA 8260C
Chloromethane	EPA 8260D
	EPA 8260C

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Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 8260D EPA 8260C
cis-1,3-Dichloropropene	EPA 8260D EPA 8260C
Dibromochloromethane	EPA 8260D EPA 8260C
Dibromomethane	EPA 8260D EPA 8260C
Dichlorodifluoromethane	EPA 8260D EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260D EPA 8260C
Methyl iodide	EPA 8260D EPA 8260C
Methylene chloride	EPA 8260D EPA 8260C
Tetrachloroethene	EPA 8260D EPA 8260C
trans-1,2-Dichloroethene	EPA 8260D EPA 8260C
trans-1,3-Dichloropropene	EPA 8260D EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260D EPA 8260C
Trichloroethene	EPA 8260D EPA 8260C
Trichlorofluoromethane	EPA 8260D

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Volatile Halocarbons

Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260D
	EPA 8260C

Volatile Organics

1,4-Dioxane	EPA 8260D
	EPA 8260C
	EPA 8270D
	EPA 8270E
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
2-Nitropropane	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C
Acetonitrile	EPA 8260D
	EPA 8260C
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Di-ethyl ether	EPA 8260D
	EPA 8260C
Ethylene Glycol	EPA 8015C



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Volatile Organics

Isobutyl alcohol	EPA 8260D
	EPA 8260C
Isopropanol	EPA 8260D
	EPA 8260C
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
n-Butanol	EPA 8260D
	EPA 8260C
o-Toluidine	EPA 8270D
	EPA 8270E
Propionitrile	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
Vinyl acetate	EPA 8260D
	EPA 8260C

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 9030B

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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Sample Preparation Methods

EPA 3050B
EPA 3546
EPA 3060A
EPA 3541



Serial No.: 68404

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

NY Lab Id No: 10145

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Sulfur Dioxide	40 CFR 60 Method 8
Sulfuric Acid	40 CFR 60 Method 8



Serial No.: 68405

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American Premier Underwriters, Inc.

One East Fourth Street
Cincinnati, Ohio 45202
Telephone (513) 579-6616
Facsimile (513) 579-0108

Michael L. Cioffi
Vice President and
Assistant General Counsel

May 25, 1995

Effective June 1, 1995, I, Mr. Michael Cioffi, Vice President and Assistant General Counsel of American Premier Underwriters, Inc., hereby authorize Mr. John M. Falbo of NES, Inc. to procure samples of the wastewater discharge for analysis pursuant to the wastewater discharge permit granted by the Erie County Department of Environment and Planning on May xx, 1995 (Permit #95-05-E1016). I also authorized Mr. Mark Cambra of NES, Inc. to prepare and submit the monitoring report on my behalf.



Mr. Michael Cioffi
Vice President and Assistant General Counsel
American Premier Underwriters, Inc.

May 26, 1995

Date

APPENDIX D
LABRATORY ANALYTICAL REPORTS

APPENDIX D
(4Q23 ANALYTICAL REPORT)



February 22, 2024

Service Request No:R2401168

Mr. Michael O'Connor
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Mr.O'Connor,

Enclosed are the results of the sample(s) submitted to our laboratory February 13, 2024
For your reference, these analyses have been assigned our service request number **R2401168**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Michael
Ghiourelotis

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2401168
Date Received: 02/13/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 02/13/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 02/22/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 4Q23 Effluent			Lab ID: R2401168-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
pH	6.95				pH Units	SM 4500-H+ B
Temperature of pH Analysis	20.9				deg C	SM 4500-H+ B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request:R2401168

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2401168-001	4Q23 Effluent	2/13/2024	0900

[illegible]



Cooler Receipt and Preservation

R2401168

5

Unicorn Management Consultants
Union Rd

Project/Client

Folder Number

Cooler received on 2/13/24 by: SESCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 2/13/24 Time: 1123 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.7</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMC by SES on 2/13/24 at 1125
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 2/13/24 Time: 1130 by: RR

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample-ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<u>2</u>	<u>213623</u>	HNO ₃		<u>✓</u>	<u>none</u>	<u>-</u>	<u>001</u>	<u>0.5mL</u>	<u>B29B6A</u>	<u>2.2</u>
<u>2</u>	<u>213623</u>	H ₂ SO ₄	<u>✓</u>		<u>22200059</u>	<u>5/25</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate								
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 100322-1EKP, 021323-2ERD, 050922-2EFQ, no lot info
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR

PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2401168

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 4500-H+ B	Water	Temperature of pH Analysis
SM 4500-H+ B	Water	pH

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2401168

Sample Name: 4Q23 Effluent
Lab Code: R2401168-001
Sample Matrix: Water

Date Collected: 02/13/24
Date Received: 02/13/24

Analysis Method

1664B
420.4
6010C
SM 2540 D-2015
SM 4500-H+ B

Extracted/Digested By

ECASTROVINCI

Analyzed By

SZOGBY
BBOWE
MMCMAHON
HCASTROVINCI
SBIRNBERG



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 4Q23 Effluent
Lab Code: R2401168-001

Service Request: R2401168
Date Collected: 02/13/24 09:00
Date Received: 02/13/24 11:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	02/16/24 02:27	02/14/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	02/16/24 02:27	02/14/24	



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 4Q23 Effluent
Lab Code: R2401168-001

Service Request: R2401168
Date Collected: 02/13/24 09:00
Date Received: 02/13/24 11:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.6	1	02/20/24 09:30	
pH	SM 4500-H+ B	6.95	pH Units	-	1	02/14/24 13:00	H
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	02/20/24 12:44	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	02/20/24 14:30	
Temperature of pH Analysis	SM 4500-H+ B	20.9	deg C	-	1	02/14/24 13:00	H



QC Summary Forms

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Metals

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401168-MB

Service Request: R2401168
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	02/16/24 01:07	02/14/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	02/16/24 01:07	02/14/24	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2401168**Date Analyzed:** 02/16/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L**Basis:**NA

Lab Control Sample
R2401168-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	0.0371	0.040	93	80-120
Lead, Total	6010C	0.513	0.500	103	80-120



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401168-MB

Service Request: R2401168
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.0	1	02/20/24 09:30	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	02/20/24 12:20	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	02/20/24 14:30	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2401168
Date Analyzed: 02/20/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401168-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0366	0.0400	92	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	189	214	88	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2401168
Date Analyzed: 02/20/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2401168-LCS1		R2401168-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	37.2	41.5	90	38.8	40.8	95	78-114	4	18

APPENDIX D
(1Q24 ANALYTICAL REPORT)



March 19, 2024

Service Request No:R2401870

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory March 07, 2024
For your reference, these analyses have been assigned our service request number **R2401870**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2401870
Date Received: 03/07/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 03/07/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 03/19/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 1Q24 Effluent			Lab ID: R2401870-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
pH	7.07				pH Units	SM 4500-H+ B
Temperature of pH Analysis	20.5455				deg C	SM 4500-H+ B



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2401870

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2401870-001	1Q24 Effluent	3/7/2024	0920

[illegible]



Cooler Receipt and Preservation Check Form

R2401870

5

Unicorn Management Consultants
Union RdProject/Client Unicorn Folder Number _____Cooler received on 3/7/24 by SESCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS</u> ROC CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 3/7/24 Time: 1114 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.4</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMD by SES on 3/7/24 at 1116
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/7/24 Time: 1252 by: RR

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 10. Did all bottle labels and tags agree with custody papers? YES NO
 11. Were correct containers used for the tests indicated? YES NO
 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
 13. Were dissolved metals filtered in the field? YES NO N/A
 14. Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample-ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes No						
>12		NaOH							
<2	<u>213623</u>	HNO ₃	<u>✓</u>	<u>24002372</u>	<u>5/25</u>				
<2	<u>"</u>	H ₂ SO ₄	<u>✓</u>	<u>22200059</u>	<u>5/25</u>				
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -						
		HCl	** **						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ
Explain all Discrepancies/ Other Comments: _____

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2401870

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 4500-H+ B	Water	Temperature of pH Analysis
SM 4500-H+ B	Water	pH

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2401870

Sample Name: 1Q24 Effluent
Lab Code: R2401870-001
Sample Matrix: Water

Date Collected: 03/7/24
Date Received: 03/7/24

Analysis Method

1664B
420.4
6010C
SM 2540 D-2015
SM 4500-H+ B

Extracted/Digested By

CDISTEFANO

Analyzed By

CCAMPBELL
BBOWE
MMCMAHON
HCASTROVINCI
SBIRNBERG



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Sample Name: 1Q24 Effluent
Lab Code: R2401870-001

Service Request: R2401870
Date Collected: 03/07/24 09:20
Date Received: 03/07/24 11:06

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	03/12/24 17:47	03/11/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	03/12/24 17:47	03/11/24	



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 1Q24 Effluent
Lab Code: R2401870-001

Service Request: R2401870
Date Collected: 03/07/24 09:20
Date Received: 03/07/24 11:06
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.7	1	03/15/24 10:00	
pH	SM 4500-H+ B	7.07	pH Units	-	1	03/07/24 15:49	H
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	03/11/24 13:25	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	03/12/24 10:20	
Temperature of pH Analysis	SM 4500-H+ B	20.5455	deg C	-	1	03/07/24 15:49	H



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401870-MB

Service Request: R2401870
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	ND U	mg/L	0.010	1	03/12/24 16:59	03/11/24	
Lead, Total	6010C	ND U	mg/L	0.0050	1	03/12/24 16:59	03/11/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2401870
Date Analyzed: 03/12/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401870-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	0.0367	0.040	92	80-120
Lead, Total	6010C	0.495	0.500	99	80-120



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2401870-MB

Service Request: R2401870
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.3	1	03/15/24 10:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	03/11/24 11:42	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	03/12/24 10:20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2401870
Date Analyzed: 03/11/24 - 03/12/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2401870-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0364	0.0400	91	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	190	214	89	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2401870
Date Analyzed: 03/15/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2401870-LCS1		R2401870-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	40.2	41.7	96	38.6	42.6	91	78-114	4	18

APPENDIX D
(2Q24 ANALYTICAL REPORT)



May 08, 2024

Service Request No:R2403597

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory May 01, 2024
For your reference, these analyses have been assigned our service request number **R2403597**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2403597
Date Received: 05/01/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 05/01/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 05/08/2024



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2403597

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2403597-001	2Q24 Effluent	5/1/2024	0915

Report To:				ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER				Preservative									
Company: Unicorn Management Consultants				Project Name: Union Road													
Contact: Rigby Michaelson				Project Number: 2011-100													
Email: rmichaelson@unicorngmt.com				ALS Quote #:													
Phone: 203-205-9000				SAMPLER'S SIGNATURE: [Signature]													
Address: 52 Federal Rd, Suite 2C Danbury CT, 06810				Email CC:													
				State Samples Collected (Circle or Write): NY, MA, PA, CT, Other:													
Lab ID (ALS)	Sample Collection Information:			Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below Pb	Metals, Dissolved - Field / In-Lab Filter	Total Suspended Solids	2004 phenols	Total Extractable Hydrocarbons	0. None
	Sample ID:	Date	Time														1. HCl
	2224 Effluent	5/1/24	0915	GW	4							X		X	X	X	2. HNO3
																	3. H2SO4
																	4. NaOH
																	5. Zn Acet.
																	6. MeOH
																	7. NaHSO4
																	8. Other
Special Instructions / Comments:				Turnaround Requirements Rush (Surcharges Apply) *Subject to Availability* *Please Check with your PM* <input checked="" type="checkbox"/> Standard (10 Business Days) Date Required:				Report Requirements Tier II/Cat A - Results/QC <input checked="" type="checkbox"/> Tier IV/Cat B - Data Validation Report w/. Data EDD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDD Type: Standard				Metals: RCRA 8 • PP 13 • TAL 22 • TCLP • CHLORINE R2403597 5 Unicorn Management Consultants Union Rd VC CP: PO #: Company: Unicorn management Contact: Isabel Miller Email: Imiller@unicorngmt.com Phone: 203-205-9000 Address: 52 Federal road Suite 2C, Danbury CT 06810					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:										
Signature: [Signature]	[Signature]																
Printed Name: Rigby Michaelson	Gregory D. Esmerian																
Company: UMC	AIS																
Date/Time: 5/1/24 11:48	5/1/24 11:45																



Cooler Receipt and Preservation Check Form

R2403597

Unicorn Management Consultants
Union Rd

5


Project/Client Unicorn Management Folder Number _____

Cooler received on 5/1/24 by: ME COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>	5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N	5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N	7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 5/1/24 Time: 11:51 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>12.9</u>						
Within 0-6°C?	Y <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMD by ME on 5/1/24 at 11:51
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 5/1/24 Time: 12:14 by: SES

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- Were dissolved metals filtered in the field? YES NO N/A
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes	No						
≤2	<u>213623</u>	HNO ₃	<u>✓</u>		<u>24002372</u>	<u>5/25</u>				
≤2	<u>213623</u>	H ₂ SO ₄	<u>✓</u>		<u>24000404</u>	<u>4/26</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 010124-2AES, 061923-1EKP
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

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Acronyms

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A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2403597

Sample Name: 2Q24 Effluent
Lab Code: R2403597-001
Sample Matrix: Water

Date Collected: 05/1/24
Date Received: 05/1/24

Analysis Method

1664B
420.4
6010C
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

SZOGBY
BBOWE
NMANSEN
HCASTROVINCI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 2Q24 Effluent
Lab Code: R2403597-001

Service Request: R2403597
Date Collected: 05/01/24 09:15
Date Received: 05/01/24 11:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010C	ND U	mg/L	0.0050	1	05/03/24 20:54	05/02/24	



General Chemistry

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 2Q24 Effluent
Lab Code: R2403597-001

Service Request: R2403597
Date Collected: 05/01/24 09:15
Date Received: 05/01/24 11:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.6	1	05/03/24 09:30	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	05/06/24 13:22	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	05/02/24 14:15	



QC Summary Forms

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2403597-MB

Service Request: R2403597
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010C	ND U	mg/L	0.0050	1	05/03/24 20:06	05/02/24	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2403597

Date Analyzed: 05/03/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L

Basis:NA

Lab Control Sample
R2403597-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Lead, Total	6010C	0.504	0.500	101	80-120



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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2403597-MB

Service Request: R2403597
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.1	1	05/03/24 09:30	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	05/06/24 12:40	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	05/02/24 14:15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2403597
Date Analyzed: 05/02/24 - 05/06/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2403597-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0381	0.0400	95	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	206	214	96	80-120

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2403597
Date Analyzed: 05/03/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2403597-LCS1			R2403597-DLCS1				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	33.1	41.5	80	35.2	41.6	85	78-114	6	18

APPENDIX D
(3Q24 ANALYTICAL REPORT)



September 13, 2024

Service Request No:R2407937

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2024
For your reference, these analyses have been assigned our service request number **R2407937**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2407937
Date Received: 08/20/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 08/20/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 09/06/2024



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request:R2407937

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2407937-001	3Q24 Effluent	8/20/2024	0915
R2407937-002	3Q24 Effluent Diss	8/20/2024	0915

[illegible]



R2407937

5

Unicorn Management Consultants
Union Rd

Cooler Receipt and Preservation Check Form

Project/Client Unicorn Folder Number _____Cooler received on 8/20/24 by: RDACOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	5a	Did VOA vials have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	5b	Sig* bubbles: Alk? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Sulfide? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 8/20/24 Time: 1740 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>3.9</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
If <0°C, were samples frozen?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rdz by RDA on 8/20/24 at 1741
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y ☐ N ☐Cooler Breakdown/Preservation Check**: Date: 8/21/24 Time: 1322 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID	Vol.	Lot Added	Final
			Yes No			Adjusted	Added		pH
≥12		NaOH							
≤2	<u>221523</u>	HNO ₃	<input checked="" type="checkbox"/>	<u>bottle label</u>					
≤2	<u>↓</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>	<u>24004104</u>	<u>7/26</u>				
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<input checked="" type="checkbox"/>	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	- -						
		HCl	** **						

** VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 062424HEKP, 070824-2EFO, bottle label covers info.
Explain all Discrepancies/ Other Comments:

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
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Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2407937

Sample Name: 3Q24 Effluent
Lab Code: R2407937-001
Sample Matrix: Water

Date Collected: 08/20/24
Date Received: 08/20/24

Analysis Method
1664B
420.4
6010D
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By
SZOGBY
CWOODS
ECASTROVINCI
HCASTROVINCI

Sample Name: 3Q24 Effluent Diss
Lab Code: R2407937-002
Sample Matrix: Water

Date Collected: 08/20/24
Date Received: 08/20/24

Analysis Method
6010D

Extracted/Digested By
CDISTEFANO

Analyzed By
ECASTROVINCI

Sample Name: MW-10D
Lab Code: R2407937-003
Sample Matrix: Water

Date Collected: 08/20/24
Date Received: 08/20/24

Analysis Method
1664B

Extracted/Digested By

Analyzed By
SZOGBY



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent
Lab Code: R2407937-001

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	0.0050 U	mg/L	0.0050	1	08/23/24 17:46	08/22/24	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent Diss
Lab Code: R2407937-002

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Dissolved	6010D	50 U	ug/L	50	1	08/23/24 17:50	08/22/24	



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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent
Lab Code: R2407937-001

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	4.7 U	mg/L	4.7	1	09/03/24 09:00	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	08/26/24 22:12	
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0 U	mg/L	1.0	1	08/27/24 16:00	



QC Summary Forms

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2407937-MB

Service Request: R2407937
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Dissolved	6010D	50 U	ug/L	50	1	08/23/24 16:45	08/22/24	
Lead, Total	6010D	0.0050 U	mg/L	0.0050	1	08/23/24 16:45	08/22/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/23/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2407937-LCS			R2407937-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Dissolved	6010D	521	500	104	513	500	103	80-120	2	20

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/23/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2407937-LCS			R2407937-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Total	6010D	0.521	0.500	104	0.513	0.500	103	80-120	2	20



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2407937-MB

Service Request: R2407937
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	5.1 U	mg/L	5.1	1	09/03/24 09:00	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	08/26/24 20:30	
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0 U	mg/L	1.0	1	08/27/24 16:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/26/24 - 08/27/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2407937-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0409	0.0400	102	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	177	214	83	80-120

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 09/03/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2407937-LCS1		R2407937-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	32.6	39.9	82	35.5	40.9	87	78-114	9	18

APPENDIX D
(4Q24 ANALYTICAL REPORT)



December 02, 2024

Service Request No:R2411752

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory November 14, 2024
For your reference, these analyses have been assigned our service request number **R2411752**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2411752
Date Received: 11/14/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/14/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Meghan Pedro

Date 12/02/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 4Q24 Effluent			Lab ID: R2411752-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total Suspended (TSS)	3.7			1.0	mg/L	SM 2540 D-2015



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2411752

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2411752-001	4Q24 Effluent	11/14/2024	0920

[illegible]



R2411752

Unicorn Management Consultants
Union Rd #2011-200

5



Cooler Receipt and Preservation Check Form

Project/Client _____ Folder Number _____

Cooler received on 11/14/24 by RDACOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Did VOA vials have sig* bubbles?	Y N <u>NA</u>
5b	Sig* bubbles: Alk? Y N <u>NA</u> Sulfide? Y N <u>NA</u>	
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8: Temperature Readings Date: 11/14/24 Time: 1707 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>10.3</u>						
Within 0-6°C?	<u>Y</u> <u>NA</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted: _____ Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval: _____ Client aware at drop-off: _____ Client notified by: _____

All samples held in storage location: RCU by RDA on 11/14/24 at 1711
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 11/15/24 Time: 1338 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO Sample time doesn't match
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
>12		NaOH								
<2	<u>226322</u>	HNO ₃	<u>✓</u>		<u>label</u>					
<2		H ₂ SO ₄	<u>✓</u>		<u>24604104 7/20</u>					
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate								
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 092324-2AES, 081924-1EKP, 090924-2EFC
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2411752

Sample Name: 4Q24 Effluent
Lab Code: R2411752-001
Sample Matrix: Water

Date Collected: 11/14/24
Date Received: 11/14/24

Analysis Method

1664B
420.4
6010D
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

SZOGBY
CWOODS
NMANSEN
HCASTROVINCI



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Metals

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 4Q24 Effluent
Lab Code: R2411752-001

Service Request: R2411752
Date Collected: 11/14/24 09:20
Date Received: 11/14/24 16:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	ND U	mg/L	0.0050	1	11/19/24 18:22	11/18/24	



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: 4Q24 Effluent
Lab Code: R2411752-001

Service Request: R2411752
Date Collected: 11/14/24 09:20
Date Received: 11/14/24 16:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.7	1	11/26/24 09:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	11/19/24 12:22	
Solids, Total Suspended (TSS)	SM 2540 D-2015	3.7	mg/L	1.0	1	11/20/24 13:00	



QC Summary Forms

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Metals

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2411752-MB

Service Request: R2411752
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	ND U	mg/L	0.0050	1	11/19/24 17:23	11/18/24	

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411752
Date Analyzed: 11/19/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2411752-LCS			R2411752-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Total	6010D	0.514	0.500	103	0.516	0.500	103	80-120	<1	20



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2411752-MB

Service Request: R2411752
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.0	1	11/26/24 09:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	11/19/24 11:44	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	11/20/24 13:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411752
Date Analyzed: 11/19/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2411752-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0402	0.0400	100	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411752
Date Analyzed: 11/20/24 - 11/26/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2411752-LCS1

Duplicate Lab Control Sample
R2411752-DLCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	36.5	40.3	91	35.9	40.3	89	78-114	2	18
Solids, Total Suspended (TSS)	SM 2540 D-2015	170	214	79 *	184	214	86	80-120	8	10

APPENDIX D
(MW-10D
ANALYTICAL
REPORT)
Using EPA Method 1664B



February 07, 2025

Service Request No:R2407937

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2024
For your reference, these analyses have been assigned our service request number **R2407937**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2407937
Date Received: 08/20/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 08/20/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Report revised, client requested that Oil and Grease data be added to the report, initially they requested to cancel the analysis.

Approved by

A handwritten signature in black ink, appearing to read "Meghan Pedicini".

Date

09/06/2024



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request:R2407937

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2407937-001	3Q24 Effluent	8/20/2024	0915
R2407937-002	3Q24 Effluent Diss	8/20/2024	0915
R2407937-003	MW-10D	8/20/2024	1530

Report To:				ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER																		
Company: Unicorn Management Consultants Contact: Rigby Michaelson Email: michaelson@unicornmgt.com Phone: 203-205-9000 Address: 52 Federal Road Suite 2c Danbury, CT 06810				Project Name: Union Road Project Number: 2011-200 ALS Quote #: SAMPLER'S SIGNATURE: [Signature] Email CC: State Samples Collected (Circle or Write): NY MA, PA, CT, Other:				Preservative														
Lab ID (ALS)	Sample Collection Information:					Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 624 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filtered	Total Suspended Solids	Oil and Grease	Phenols	Notes:			
	Sample ID:	Date	Time																			
	3Q24 Effluent	8/20/24	0915	GW	Y									X	X	X	X					
	MW-10D	8/20/24	1530	GW	1																	
Special Instructions / Comments:				Turnaround Requirements Rush (Surcharges Apply) Subject to Availability Please Check with your PM Standard (10 Business Days) Date Required:					Report Requirements Tier II/Cat A - Results/QC Tier IV/Cat B - Data Validation Report w/. Data EDD: Yes No EDD Type: Standard					Metals: RCRA 8 • PP 13 • TAL 23 • TCLP • Other (List) VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Other: Invoice To: Same as Report To PO #: // Company: //								
Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:		Received By:		Contact: Isabel Miller Email: imiller@unicornmgt.com Phone: R2407937 5 Unicorn Management Consultants Union Rd										
Signature: [Signature]		[Signature]										Barcode										
Printed Name: Rigby Michaelson		Amy Dineen																				
Company: UMC		ALW																				
Date/Time: 8/20/24 5:20pm		8/20/24 1720																				



R2407937

5

Unicorn Management Consultants
Union Rd

Cooler Receipt and Preservation Check Form

Project/Client Unicorn Folder Number _____Cooler received on 8/20/24 by: RDACOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	5a	Did VOA vials have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	5b	Sig* bubbles: Alk? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Sulfide? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 8/20/24 Time: 1740 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>3.9</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
If <0°C, were samples frozen?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rdz by RDA on 8/20/24 at 1741
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y ☐ N ☐Cooler Breakdown/Preservation Check**: Date: 8/21/24 Time: 1322 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>221523</u>	HNO ₃	<input checked="" type="checkbox"/>		<u>bottle label</u>					
≤2	<u>↓</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>24004104</u>	<u>7/26</u>				
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<input checked="" type="checkbox"/>		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

** VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 062424HEKP, 070824-2EFO, bottle label covers info.
Explain all Discrepancies/ Other Comments:Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200

Service Request: R2407937

Sample Name: 3Q24 Effluent
Lab Code: R2407937-001
Sample Matrix: Water

Date Collected: 08/20/24**Date Received:** 08/20/24**Analysis Method**

1664B
420.4
6010D
SM 2540 D-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

SZOGBY
CWOODS
ECASTROVINCI
HCASTROVINCI

Sample Name: 3Q24 Effluent Diss
Lab Code: R2407937-002
Sample Matrix: Water

Date Collected: 08/20/24**Date Received:** 08/20/24**Analysis Method**

6010D

Extracted/Digested By

CDISTEFANO

Analyzed By

ECASTROVINCI

Sample Name: MW-10D
Lab Code: R2407937-003
Sample Matrix: Water

Date Collected: 08/20/24**Date Received:** 08/20/24**Analysis Method**

1664B

Extracted/Digested By**Analyzed By**

SZOGBY



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent
Lab Code: R2407937-001

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Total	6010D	ND U	mg/L	0.0050	1	08/23/24 17:46	08/22/24	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent Diss
Lab Code: R2407937-002

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Dissolved	6010D	ND U	ug/L	50	1	08/23/24 17:50	08/22/24	



General Chemistry

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ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: 3Q24 Effluent
Lab Code: R2407937-001

Service Request: R2407937
Date Collected: 08/20/24 09:15
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.7	1	09/03/24 09:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	08/26/24 22:12	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	08/27/24 16:00	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: MW-10D
Lab Code: R2407937-003

Service Request: R2407937
Date Collected: 08/20/24 15:30
Date Received: 08/20/24 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	4.6	1	09/03/24 09:00	



QC Summary Forms

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ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2407937-MB

Service Request: R2407937
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Lead, Dissolved	6010D	ND U	ug/L	50	1	08/23/24 16:45	08/22/24	
Lead, Total	6010D	ND U	mg/L	0.0050	1	08/23/24 16:45	08/22/24	

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/23/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2407937-LCS			R2407937-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Dissolved	6010D	521	500	104	513	500	103	80-120	2	20

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/23/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			R2407937-LCS			R2407937-DLCS				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Lead, Total	6010D	0.521	0.500	104	0.513	0.500	103	80-120	2	20



General Chemistry

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2407937-MB

Service Request: R2407937
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664B	ND U	mg/L	5.1	1	09/03/24 09:00	
Phenolics, Total Recoverable	420.4	ND U	mg/L	0.0050	1	08/26/24 20:30	
Solids, Total Suspended (TSS)	SM 2540 D-2015	ND U	mg/L	1.0	1	08/27/24 16:00	

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dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 08/26/24 - 08/27/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2407937-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.0409	0.0400	102	90-110
Solids, Total Suspended (TSS)	SM 2540 D-2015	177	214	83	80-120

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-200
Sample Matrix: Water

Service Request: R2407937
Date Analyzed: 09/03/24

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			R2407937-LCS1		R2407937-DLCS1					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Total (HEM)	1664B	32.6	39.9	82	35.5	40.9	87	78-114	9	18

APPENDIX D
(MW-10D
ANALYTICAL
REPORT)



December 03, 2024

Service Request No:R2411753

Rigby Michaelsen
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Rd

Dear Rigby,

Enclosed are the results of the sample(s) submitted to our laboratory November 14, 2024
For your reference, these analyses have been assigned our service request number **R2411753**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Francisco Trejo

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Client: Unicorn Management Consultants
Project: Union Rd
Sample Matrix: Water

Service Request: R2411753
Date Received: 11/14/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/14/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivola GC:

Method 8015C, 862967s: The control limits were exceeded for one or more surrogates due to matrix interferences. A re-extraction and reanalysis was performed, but produced similar results. The re-extraction was performed out of holding time. No further corrective action was required.

Method 8015C, 862578: The control limits were exceeded for one or more surrogates in the sample(s). Since the problem may indicate a potential bias in the analytical batch, all associated field samples will be re-extracted out of hold and reanalyzed.

Approved by

A handwritten signature in black ink, appearing to read "Meghan Pedicini".

Date

12/03/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-10D		Lab ID: R2411753-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
C28 - C40 ORO	150			100	ug/L	8015C
Diesel Range Organics (DRO) as C10-C28 Alkanes	230			100	ug/L	8015C
Diesel Range Organics (DRO) as C10-C28 Alkanes	560			100	ug/L	8015C



Sample Receipt Information

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Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request:R2411753

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2411753-001	MW-10D	11/14/2024	1320

[illegible]



Cooler Receipt and Preservation Check Form

R2411753

Unicorn Management Consultants
Union Rd

5



Project/Client: _____ Folder Number: _____

Cooler received on 11/14/24 by: RDA

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Did VOA vials have sig* bubbles?	Y N <u>NA</u>
5b	Sig* bubbles: Alk? Y N <u>NA</u> Sulfide? Y N <u>NA</u>	
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8: Temperature Readings Date: 11/14/24 Time: 1707 ID: IR#12 IR#1 From: Temp Blank Sample Bottle

Temp (°C)	<u>10.5</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted: _____ Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval: _____ Client aware at drop-off Client notified by: _____

All samples held in storage location: ROR by RDA on 11/14/24 at 1711
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 11/15/24 Time: 1340 by: SES

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO sample time doesn't match
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- Were dissolved metals filtered in the field? YES NO N/A
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 100322-14Y

Explain all Discrepancies/ Other Comments:

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2411753

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8015C	Water	C28 - C40 ORO

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100

Service Request: R2411753

Sample Name: MW-10D
Lab Code: R2411753-001
Sample Matrix: Water

Date Collected: 11/14/24
Date Received: 11/14/24

Analysis Method
8015C

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER

Sample Name: MW-10D
Lab Code: R2411753-001.R01
Sample Matrix: Water

Date Collected: 11/14/24
Date Received: 11/14/24

Analysis Method
8015C

Extracted/Digested By
KPROCOPIO

Analyzed By
KPROCOPIO



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753
Date Collected: 11/14/24 13:20
Date Received: 11/14/24 16:35

Sample Name: MW-10D
Lab Code: R2411753-001

Units: ug/L
Basis: NA

Semivolatile Range Organics by GC/FID

Analysis Method: 8015C
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Diesel Range Organics (DRO) as C10-C28 Alkanes	230	100	1	11/26/24 18:54	11/21/24	
C28 - C40 ORO	ND U	100	1	11/26/24 18:54	11/21/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
o-Terphenyl	22 *	30 - 132	11/26/24 18:54	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753
Date Collected: 11/14/24 13:20
Date Received: 11/14/24 16:35

Sample Name: MW-10D
Lab Code: R2411753-001

Units: ug/L
Basis: NA

Semivolatile Range Organics by GC/FID

Analysis Method: 8015C
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Diesel Range Organics (DRO) as C10-C28 Alkanes	560	100	1	12/03/24 13:47	11/27/24	*
C28 - C40 ORO	150	100	1	12/03/24 13:47	11/27/24	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
o-Terphenyl	15 *	30 - 132	12/03/24 13:47	*



QC Summary Forms

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753

SURROGATE RECOVERY SUMMARY
Semivolatile Range Organics by GC/FID

Analysis Method: 8015C
Extraction Method: EPA 3510C

Sample Name	Lab Code	o-Terphenyl
		30 - 132
MW-10D	R2411753-001	22 *
MW-10D RE	R2411753-001	15 *
Method Blank	RQ2415273-01	59
Lab Control Sample	RQ2415273-02	56
Duplicate Lab Control Sample	RQ2415273-03	58
Method Blank	RQ2415296-01	60
Lab Control Sample	RQ2415296-02	51
Duplicate Lab Control Sample	RQ2415296-03	54

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2415273-01

Units: ug/L
Basis: NA

Semivolatile Range Organics by GC/FID

Analysis Method: 8015C
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Diesel Range Organics (DRO) as C10-C28 Alkanes	ND U	100	1	11/26/24 17:39	11/21/24	
C28 - C40 ORO	ND U	100	1	11/26/24 17:39	11/21/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
o-Terphenyl	59	30 - 132	11/26/24 17:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2415296-01

Units: ug/L
Basis: NA

Semivolatile Range Organics by GC/FID

Analysis Method: 8015C
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Diesel Range Organics (DRO) as C10-C28 Alkanes	ND U	100	1	12/03/24 12:33	11/27/24	
C28 - C40 ORO	ND U	100	1	12/03/24 12:33	11/27/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
o-Terphenyl	60	30 - 132	12/03/24 12:33	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753
Date Analyzed: 11/26/24

Duplicate Lab Control Sample Summary
Semivolatile Range Organics by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2415273-02

Duplicate Lab Control Sample
RQ2415273-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO) as C10-C28 Alkanes	8015C	164	500	33	178	500	36	31-99	8	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd/2011-100
Sample Matrix: Water

Service Request: R2411753
Date Analyzed: 12/03/24

Duplicate Lab Control Sample Summary
Semivolatile Range Organics by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2415296-02

Duplicate Lab Control Sample
RQ2415296-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO) as C10-C28 Alkanes	8015C	180	500	36	155	500	31	31-99	15	30