

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

Michael J. O'Connor, LEP, P.G.

Manager of Environmental Projects

Union Road Remediation Project

Attachments

cc: M. Cioffi

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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.

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Data

Table of Contents

1	Intr	Introduction		3
	1.1	Bac	ckground	3
2	Ope	eratio	on and Maintenance Activites Conducted in 2024	4
	2.1	We	ll Network Installation	4
	2.2	Gro	oundwater Elevation Monitoring	5
	2.2.	.1	Groundwater Elevation Measurement Procedures	6
	2.2.	.2	2024 Annual Groundwater Elevation Monitoring	6
	2.3	Gro	oundwater Monitoring Plan	7
	2.3.	.1	Groundwater Sampling Procedures	9
	2.3.	.2	Summary of Groundwater Quality Parameter Data	9
	2.3.	.3	Summary of Analytical Data from the 2024 sampling of MW-10D	10
	2.3.	.4	Summary of Historical Analytical Data	10
	2.4	Anı	nual Site Inspection	12
	2.4.	.1	Monitoring Well Network Inspection	12
	2.4.	.2	Roundhouse Area	12
	2.4.	.3	Landfill Closure	13
	2.4.	.4	Wetland Restoration	14
	2.4.	.5	Stream Restoration	14
	2.4.	.6	Downstream Area	14
	2.5	Dev	watering System	15
	2.6	Cha	ange of Use	16
3	Sch	edul	e of peration & Maintenance Activities in 2025	16
4	Cor	nclus	jon	17



Period: Annual Report for 2024

LIST OF FIGURES

Figure 1-1:	Location Map
Figure 1-2:	Site Location
Figure 2-1:	Groundwater Monitoring Well Locations
Figure 2-2:	Site Features Map
Figure 2-3:	Shallow Groundwater Flow Map; August 20 and 21, 2024
Figure 2-4:	Medium Groundwater Flow Map; August 20 and 21, 2024
Figure 2-5:	Deep Groundwater Flow Map; August 20 and 21, 2024; and November 14, 2024
Figure 2-6:	Interior Groundwater Flow Map: August 20 and 21, 2024
Figures 2-7a to	2-17e: Summary of Post-Closure Groundwater Monitoring Data

LIST OF TABLES

Table 2-1:	Well Purging Summary
Table 2-2:	S-Well SVOCs
Table 2-3:	S-Well VOCs, TPH, Metals
Table 2-4:	M-Well SVOCs
Table 2-5:	M-Well VOCs, TPH, Metals
Table 2-6:	D-Well SVOCs
Table 2-7:	D-Well VOCs, TPH, Metals
Table 2-8:	Pre-Construction Sampling of Shallow Wells (June - August, 1991)
Table 2-9:	Summary of Post-Closure Groundwater Monitoring Data SVOCs 2014-2024
Table 2-10:	Summary of Post-Closure Groundwater Monitoring Data VOCs, TPH, Soluble
	Metals 2014-2024
Table 2-11.	Groundwater Quality Parameters: August 20, 2024

LIST OF APPENDICES

Appendix A: Field Notes
Appendix B: Site Photos
Appendix C: Quarterly Reports
Appendix D: Laboratory Reports

Table of Contents

1	Intr	Introduction		3
	1.1	Bac	ckground	3
2	Ope	eratio	on and Maintenance Activites Conducted in 2024	4
	2.1	We	ll Network Installation	4
	2.2	Gro	oundwater Elevation Monitoring	5
	2.2.	.1	Groundwater Elevation Measurement Procedures	6
	2.2.	.2	2024 Annual Groundwater Elevation Monitoring	6
	2.3	Gro	oundwater Monitoring Plan	7
	2.3.	.1	Groundwater Sampling Procedures	9
	2.3.	.2	Summary of Groundwater Quality Parameter Data	9
	2.3.	.3	Summary of Analytical Data from the 2024 sampling of MW-10D	10
	2.3.	.4	Summary of Historical Analytical Data	10
	2.4	Anı	nual Site Inspection	12
	2.4.	.1	Monitoring Well Network Inspection	12
	2.4.	.2	Roundhouse Area	12
	2.4.	.3	Landfill Closure	13
	2.4.	.4	Wetland Restoration	14
	2.4.	.5	Stream Restoration	14
	2.4.	.6	Downstream Area	14
	2.5	Dev	watering System	15
	2.6	Cha	ange of Use	16
3	Sch	edul	e of peration & Maintenance Activities in 2025	16
4	Cor	nclus	jon	17



Period: Annual Report for 2024

LIST OF FIGURES

Figure 1-1:	Location Map
Figure 1-2:	Site Location
Figure 2-1:	Groundwater Monitoring Well Locations
Figure 2-2:	Site Features Map
Figure 2-3:	Shallow Groundwater Flow Map; August 20 and 21, 2024
Figure 2-4:	Medium Groundwater Flow Map; August 20 and 21, 2024
Figure 2-5:	Deep Groundwater Flow Map; August 20 and 21, 2024; and November 14, 2024
Figure 2-6:	Interior Groundwater Flow Map: August 20 and 21, 2024
Figures 2-7a to	2-17e: Summary of Post-Closure Groundwater Monitoring Data

LIST OF TABLES

Table 2-1:	Well Purging Summary
Table 2-2:	S-Well SVOCs
Table 2-3:	S-Well VOCs, TPH, Metals
Table 2-4:	M-Well SVOCs
Table 2-5:	M-Well VOCs, TPH, Metals
Table 2-6:	D-Well SVOCs
Table 2-7:	D-Well VOCs, TPH, Metals
Table 2-8:	Pre-Construction Sampling of Shallow Wells (June - August, 1991)
Table 2-9:	Summary of Post-Closure Groundwater Monitoring Data SVOCs 2014-2024
Table 2-10:	Summary of Post-Closure Groundwater Monitoring Data VOCs, TPH, Soluble
	Metals 2014-2024
Table 2-11.	Groundwater Quality Parameters: August 20, 2024

LIST OF APPENDICES

Appendix A: Field Notes
Appendix B: Site Photos
Appendix C: Quarterly Reports
Appendix D: Laboratory Reports



Period: Annual Report for 2024

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

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Union Road Site: Periodic Review Report

Period: Annual Report for 2024

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 ACTIVITES 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.

Period: Annual Report for 2024

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.

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Period: Annual Report for 2024

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 <u>2024 Annual Groundwater Elevation Monitoring</u>

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

Period: Annual Report for 2024

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.

Union Road Site: Periodic Review Report Period: Annual Report for 2024

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 <u>Groundwater Sampling Procedures</u>

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

- 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 <u>Summary of Groundwater Quality Parameter Data</u>

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.

Period: Annual Report for 2024

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

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Union Road Site: Periodic Review Report

Period: Annual Report for 2024

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.

Period: Annual Report for 2024

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

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Union Road Site: Periodic Review Report

Period: Annual Report for 2024

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 Fromer 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 Fromer Roundhouse Area Investigation took place in 2023.

2.4.3 <u>Landfill Closure</u>

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.

Period: Annual Report for 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 <u>Stream Restoration</u>

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.

Unicorn Management Consultants, LLC., 52 Federal Road, Suite 2C, Danbury, CT 06810

Page 14

Period: Annual Report for 2024

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.

Period: Annual Report for 2024

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

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Page 16

UMC

Period: Annual Report for 2024

• 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.

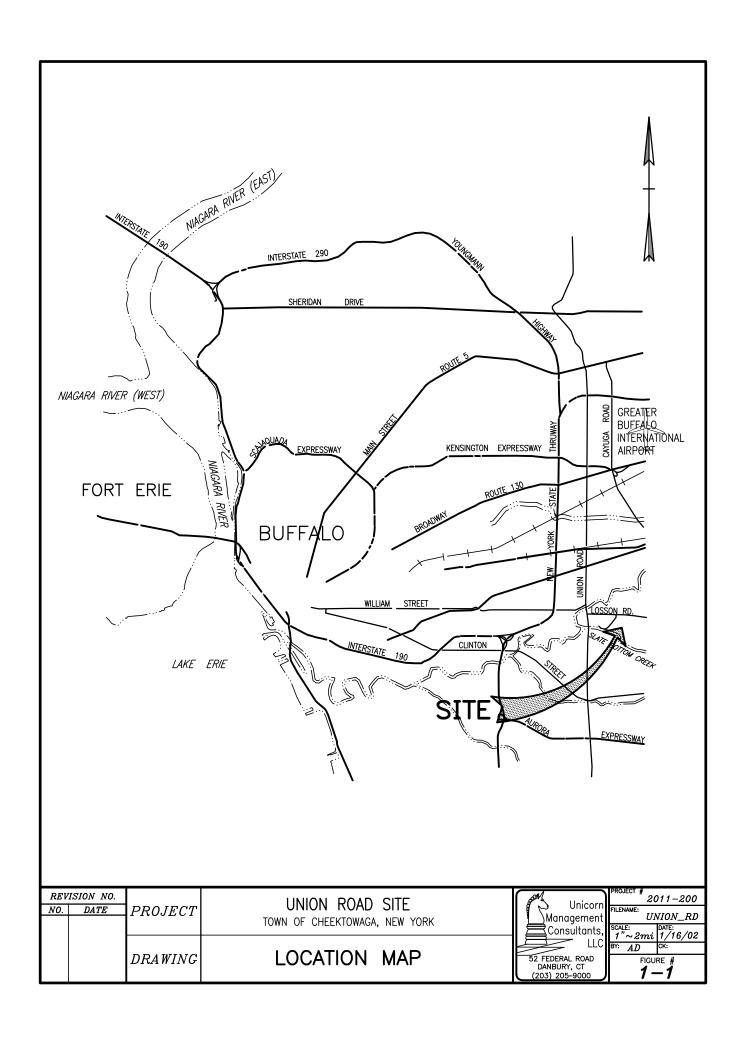
The groundwater elevation measurements indicate that an inward gradient of shallow groundwater flow has been established across the slurry wall. This inward gradient in combination with the groundwater quality outside the closure demonstrates that the contamination is contained within the slurry wall.

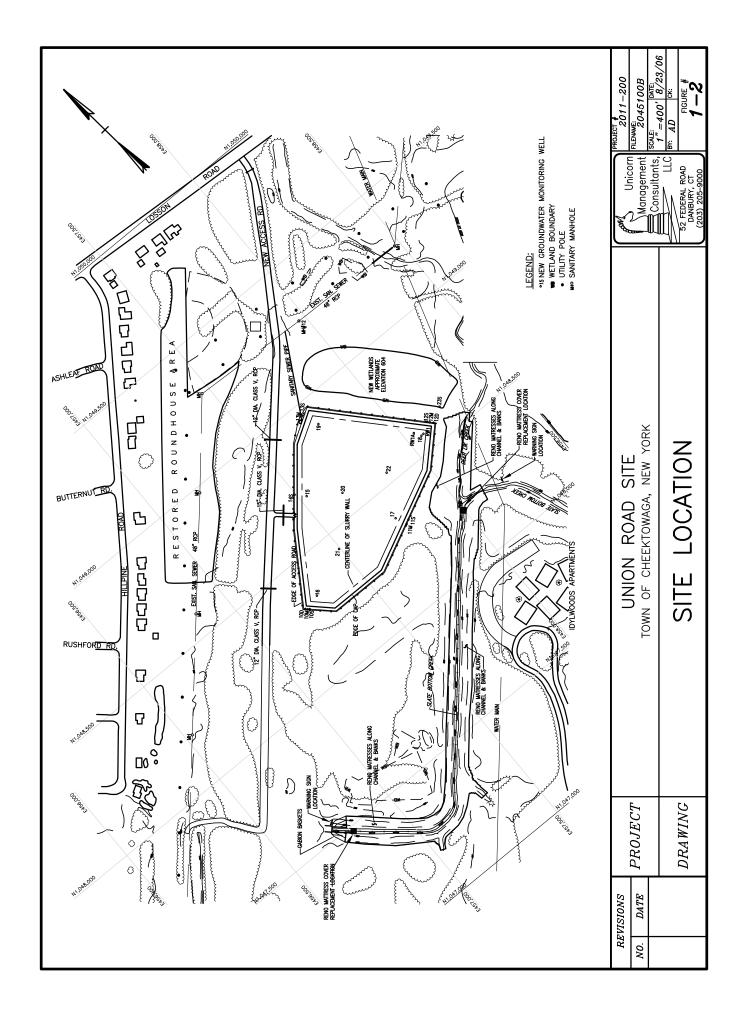
UMC will continue to monitor the Site and evaluate the groundwater surrounding the landfill in accordance with the O&M Plan

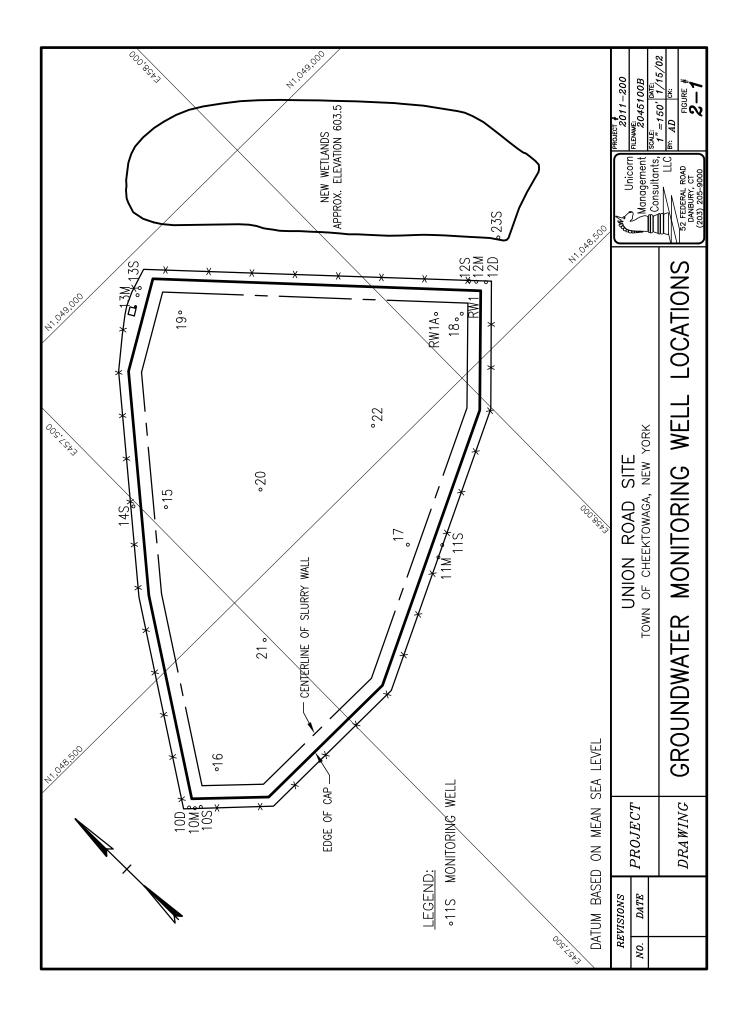


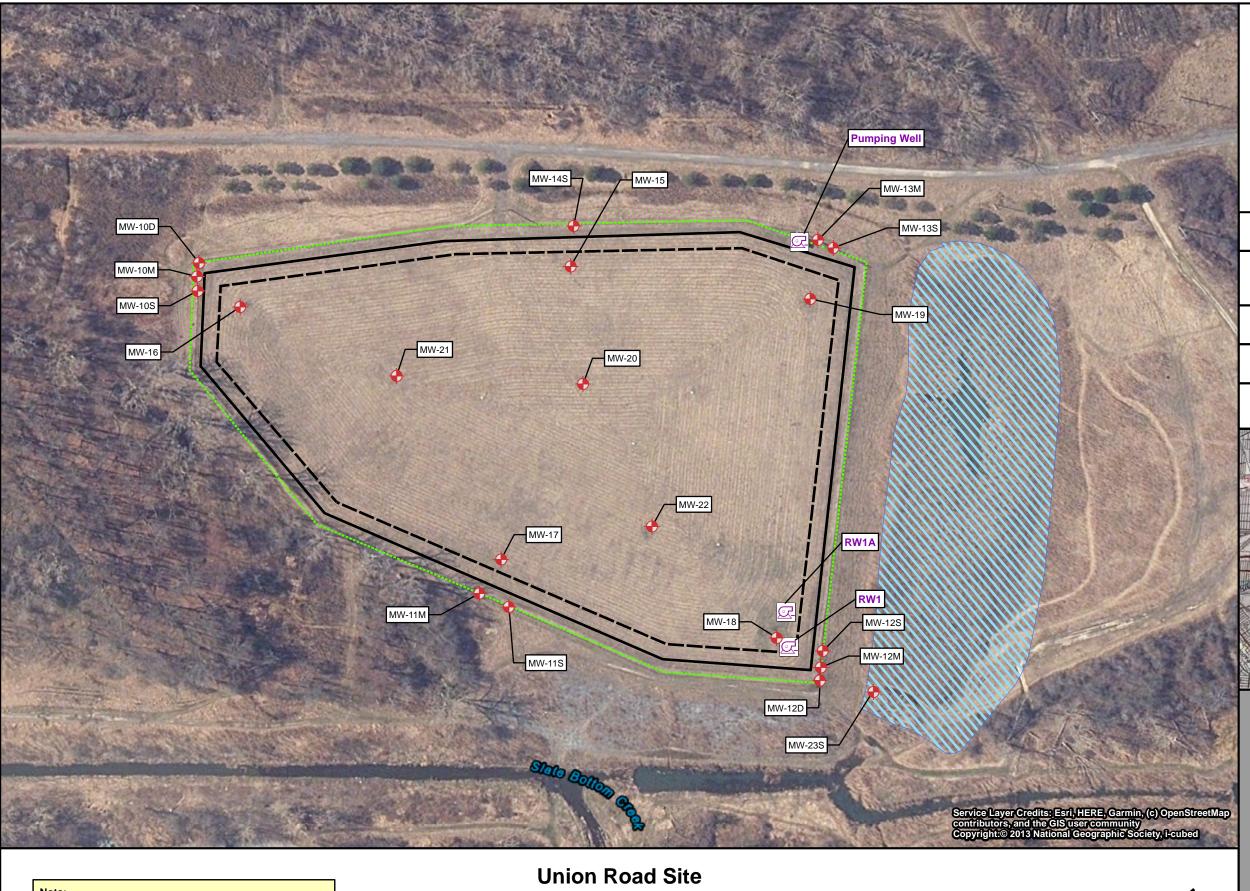
Period: Annual Report for 2024

FIGURES









Town of Cheektowaga, New York

Site Feature Map



(203) 205-9000

Project Name: Union Road

Figure 2-2

Author: NRH Checked By: RM **Created:** 3/15/24 **Project #:** 2011 **Revised:** 3/25/24

Scale: 1 in = 167 ft

File:

Site_Features



Legend

Monitoring Well Location

Pumping Well Location

Fenced Perimeter

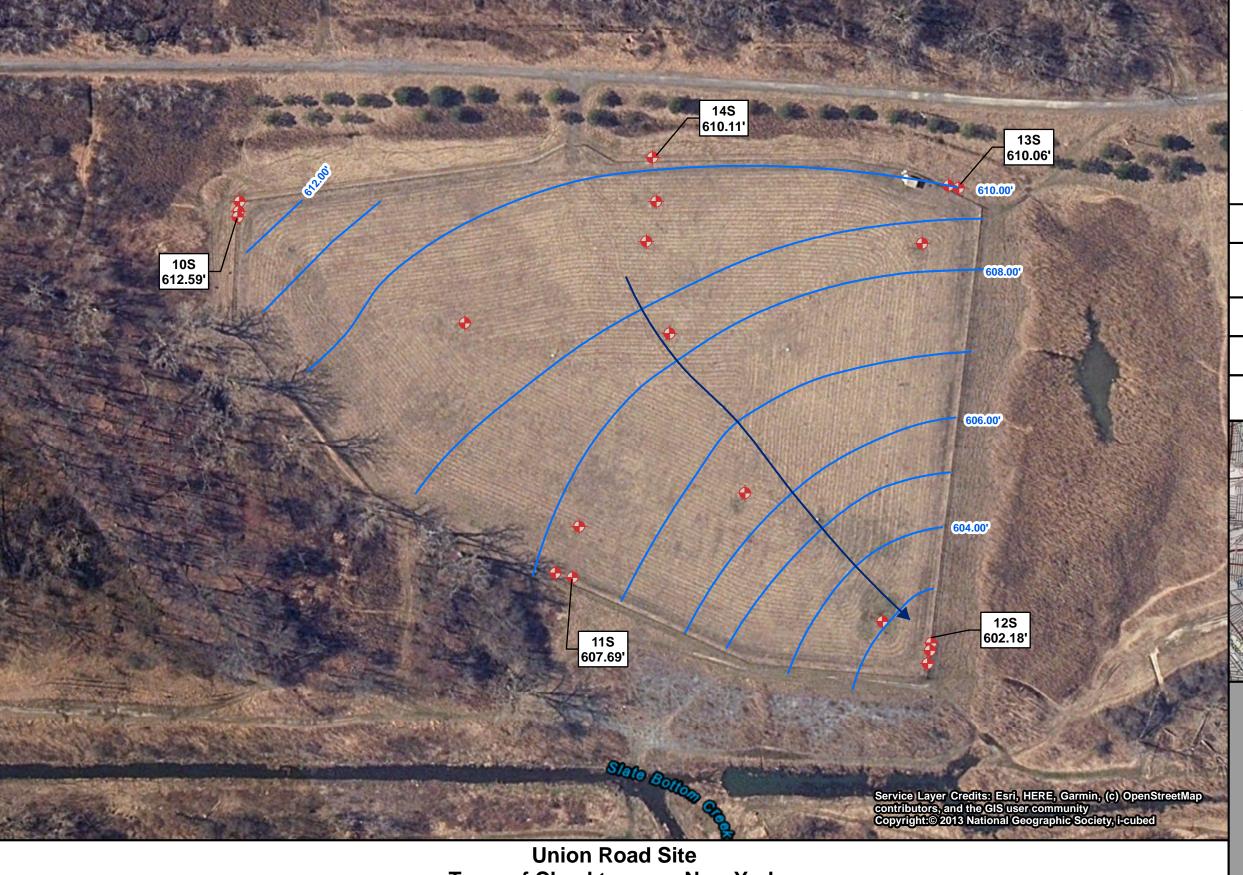
Edge of Cap

Slurry Wall

Approximate Wetlands Area

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.





Town of Cheektowaga, New York

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

400 Feet

200



52 Federal Road Suite 2C Danbury, CT 06810

(203) 205-9000

Project Name: Union Road

Figure 2-3

Author: NRH Checked By: RM Created: 12/20/22

Project #: 2011

Revised: 1/16/25

Scale: 1 in = 149 ft

File:

Shal_GW_Cont2024



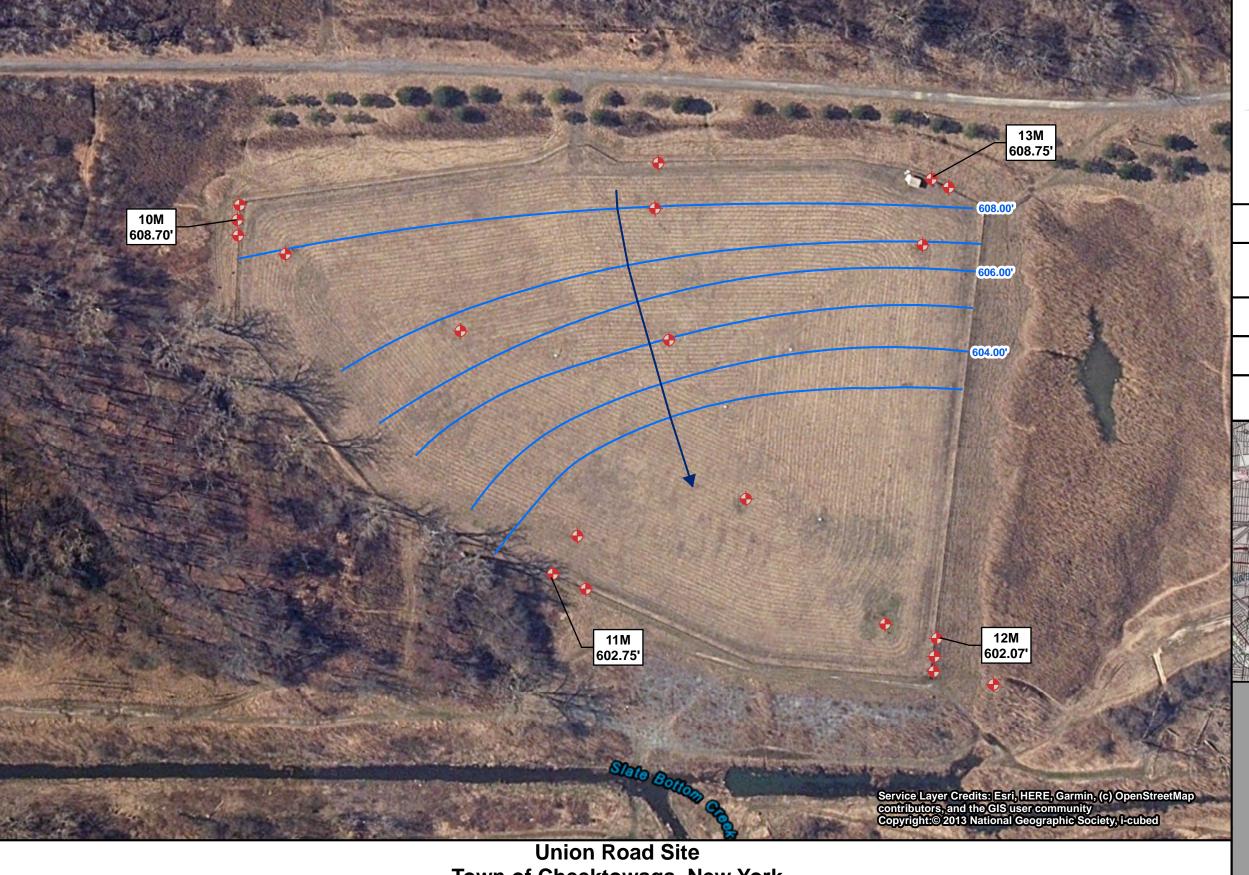
Legend

Groundwater Flow Direction

Groundwater Elevation Contour (1 ft.)

Monitoring Well Location





Town of Cheektowaga, New York

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

400

■ Feet

200



52 Federal Road Suite 2C Danbury, CT 06810

(203) 205-9000

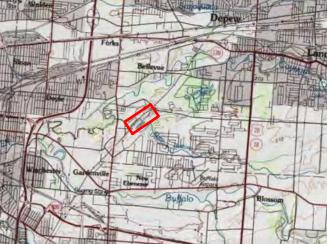
Project Name: Union Road

Figure 2-4

Checked By: RM Author: NRH

Created: 12/20/22 **Project #:** 2011 **Revised:** 1/16/25

File: Int_GW_Cont2024 **Scale:** 1 in = 149 ft



Legend

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







52 Federal Road Suite 2C Danbury, CT 06810

(203) 205-9000

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



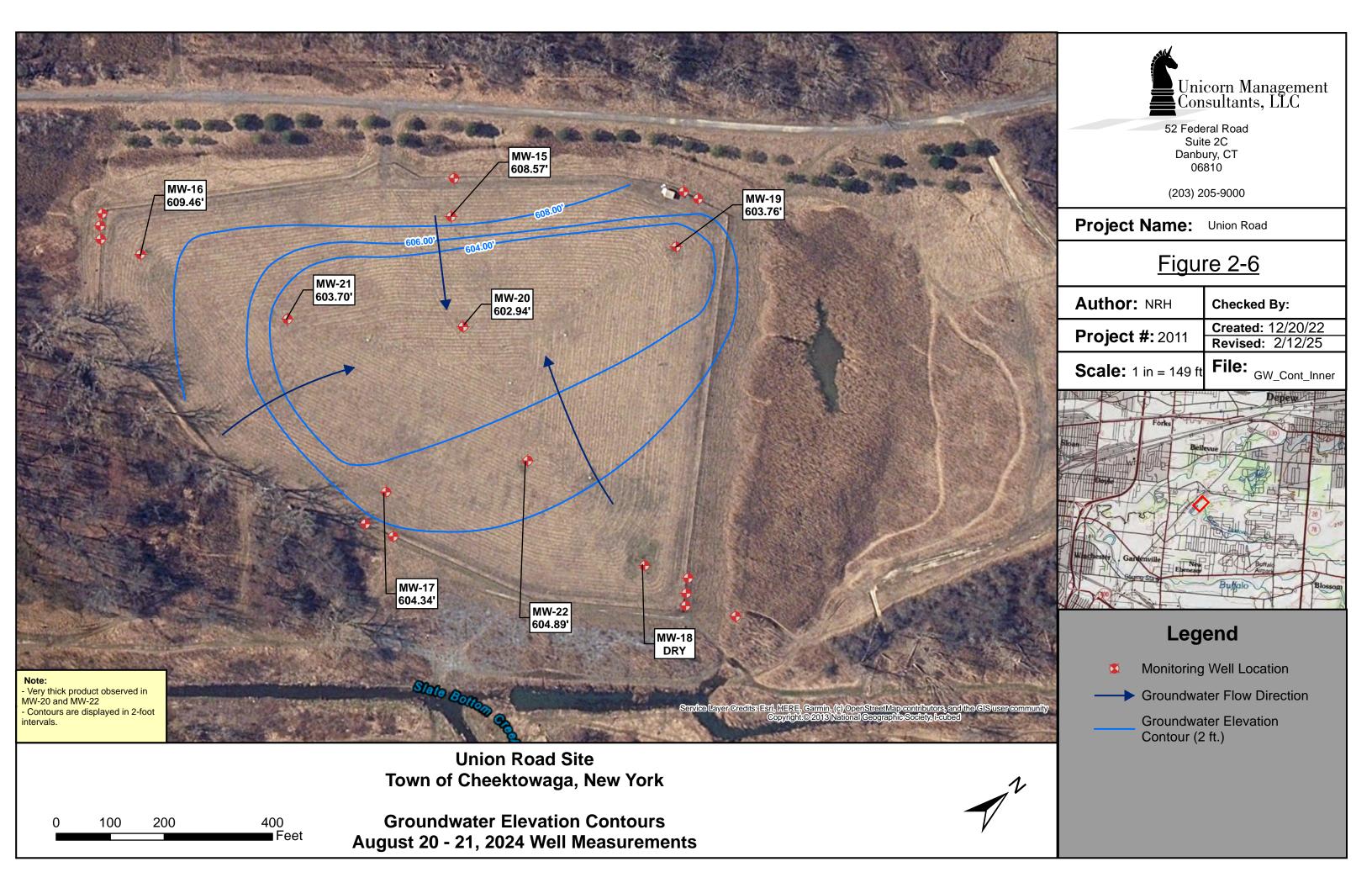
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Monitoring Well Location

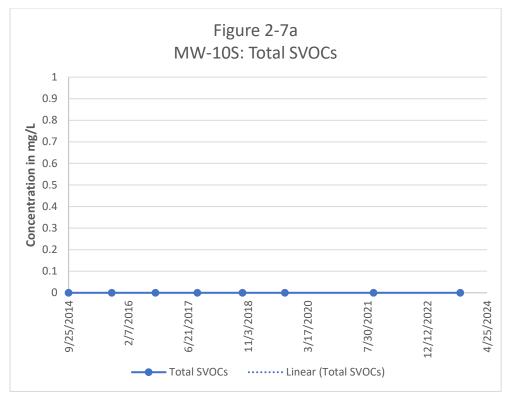
Union Road Site Town of Cheektowaga, New York

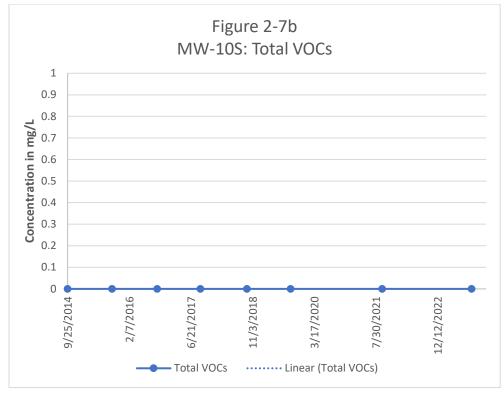
Deep Groundwater Elevation August 20-21, 2024 and November 14, 2024 **Well Measurements**



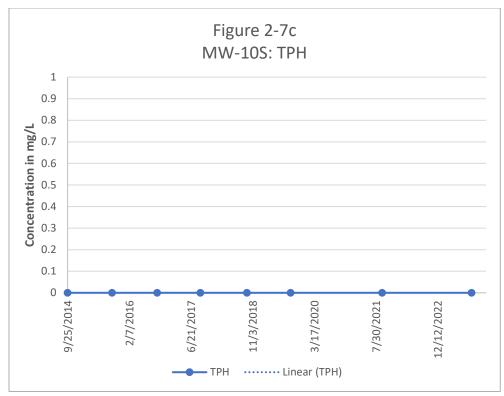


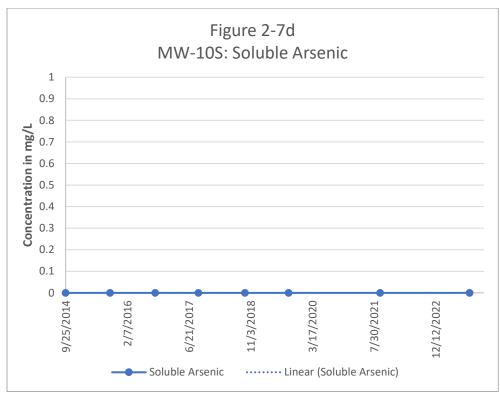




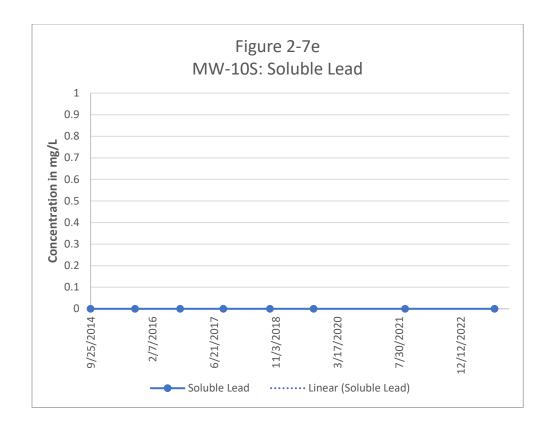




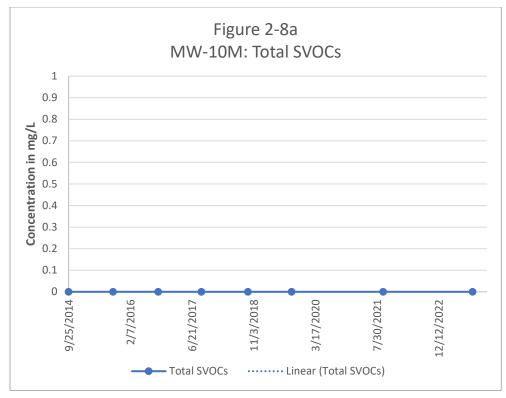


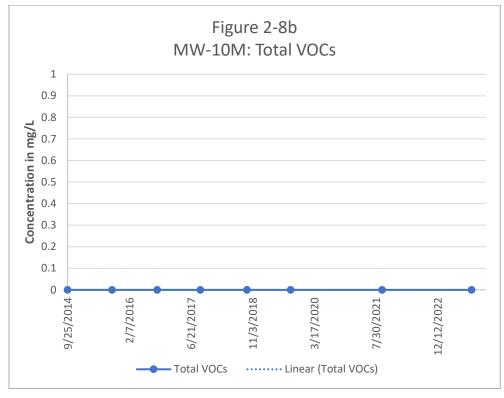




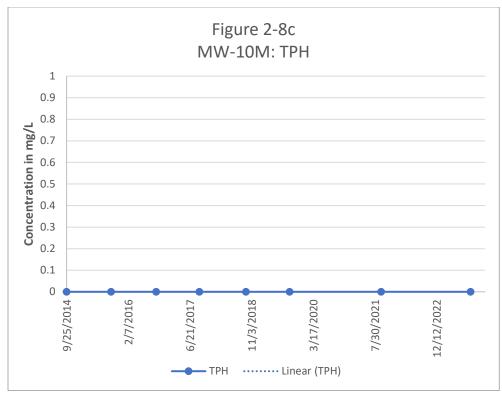


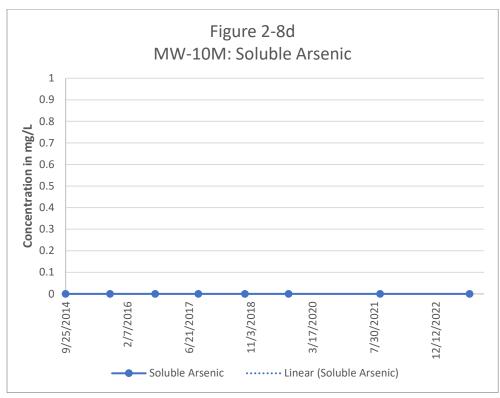




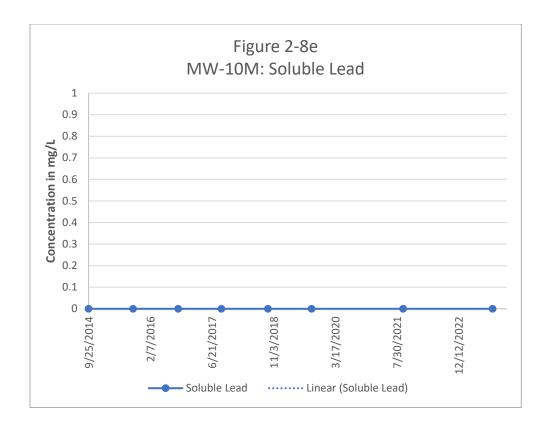




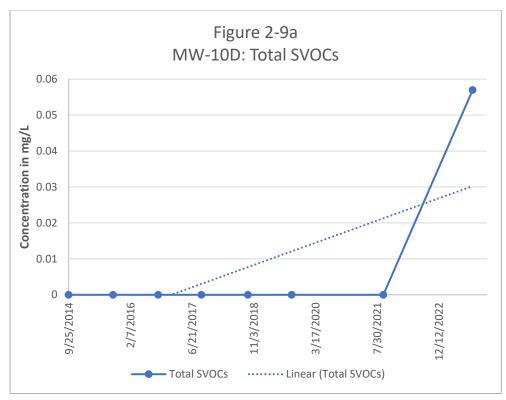


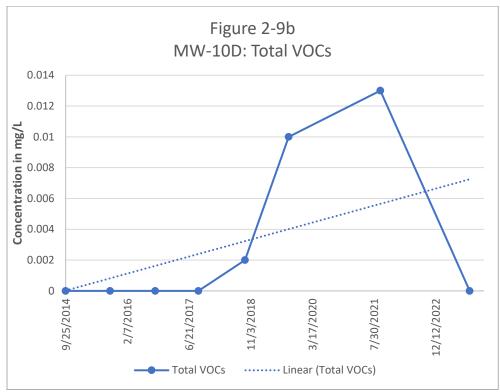




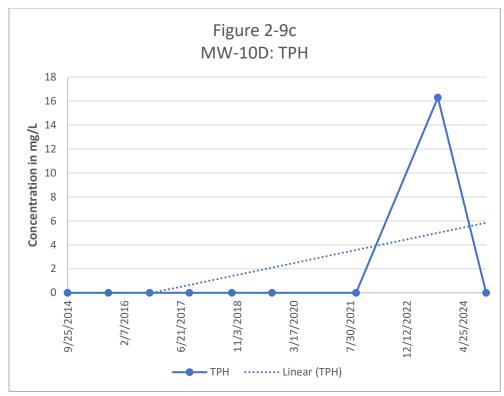


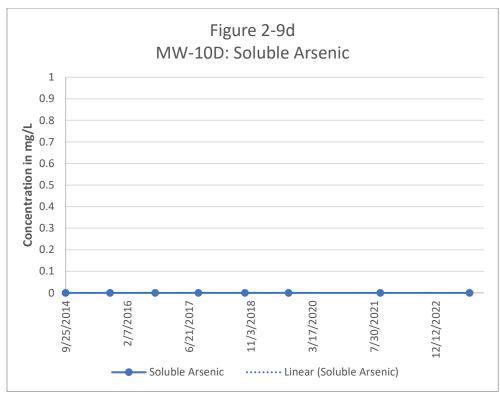




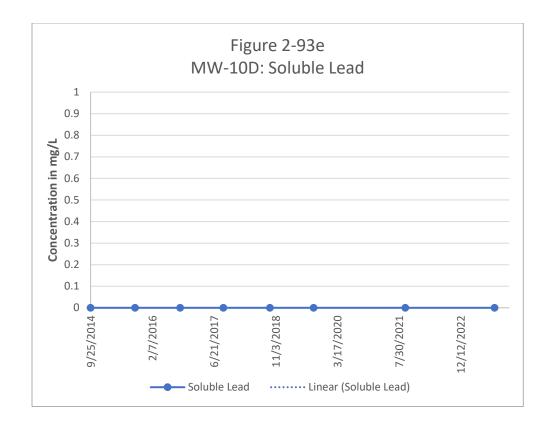




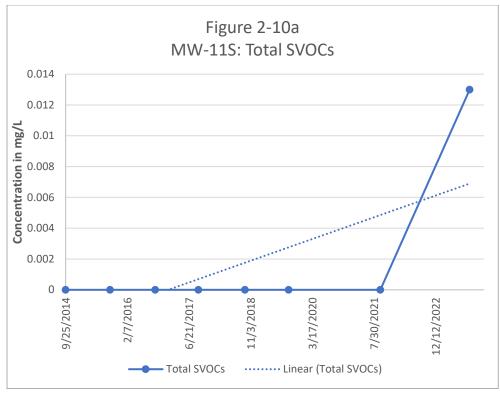


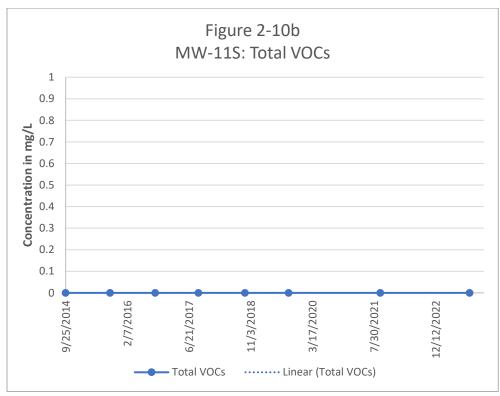




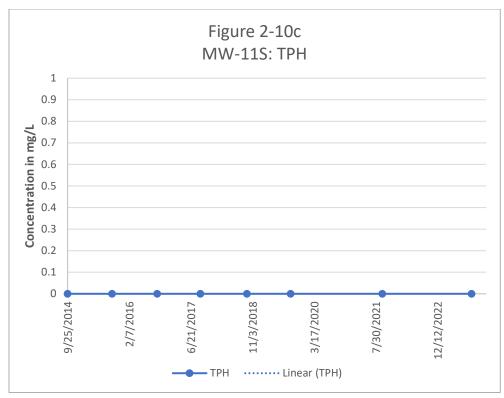


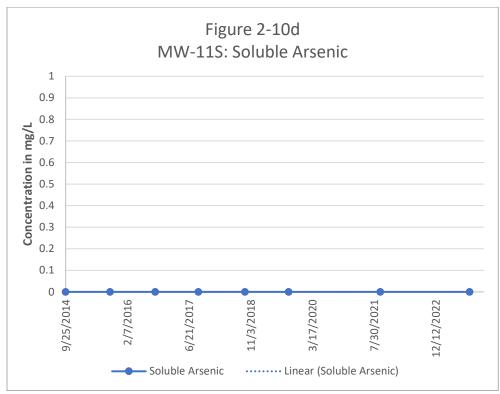




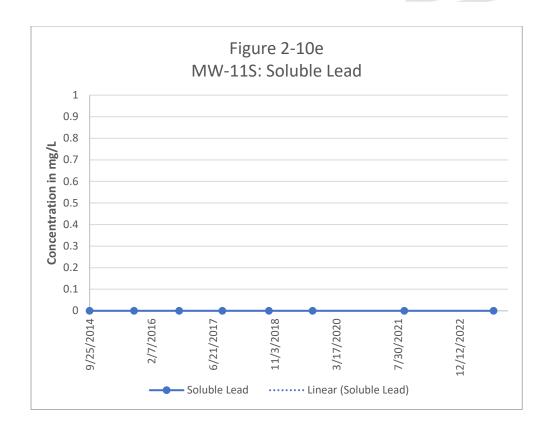




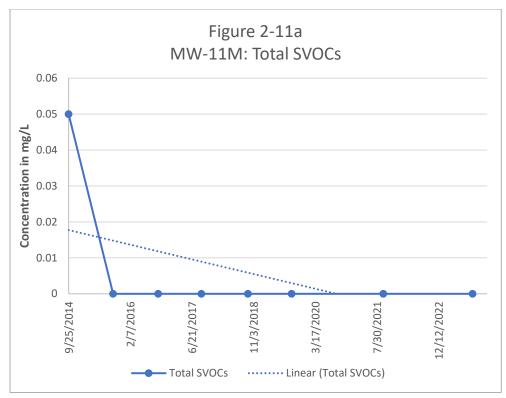


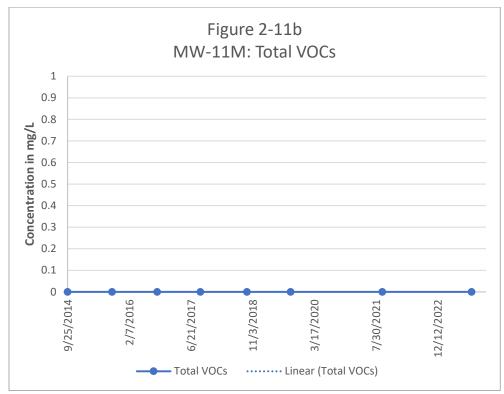




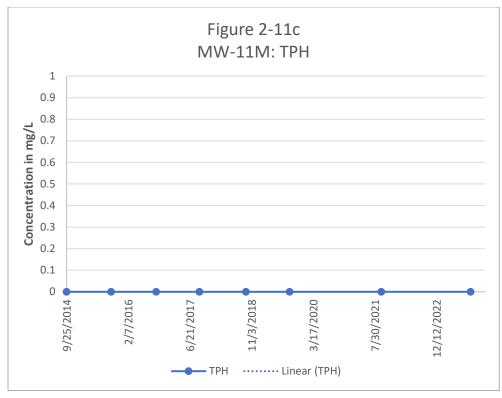


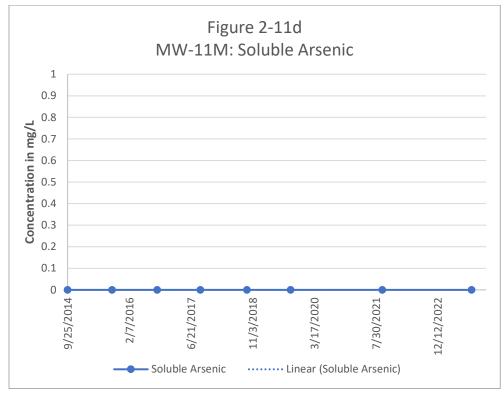




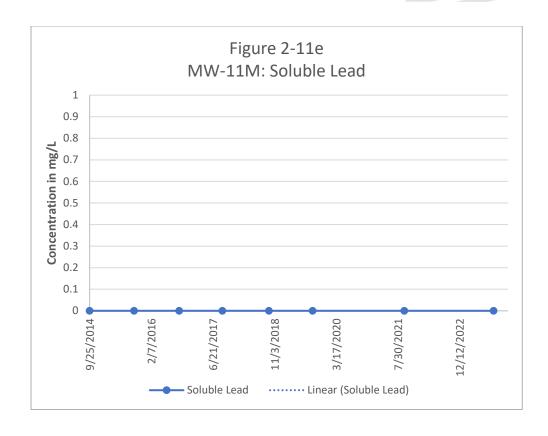




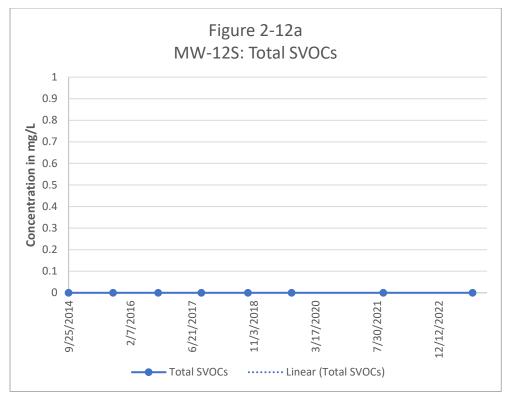


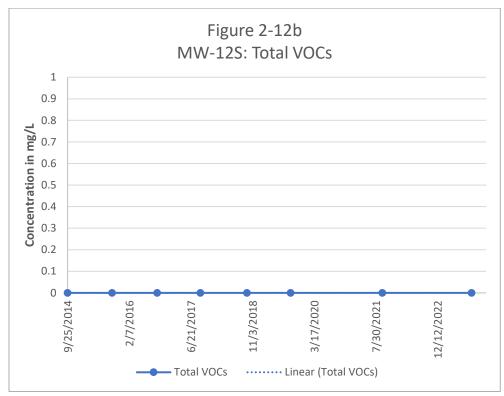




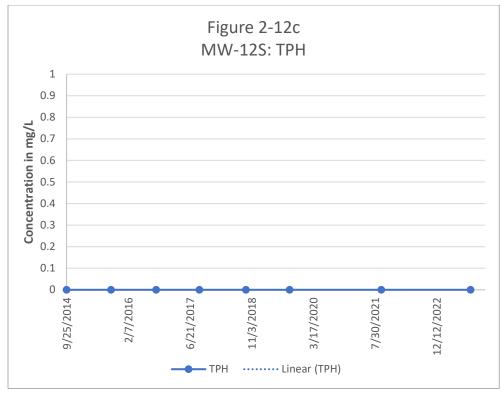


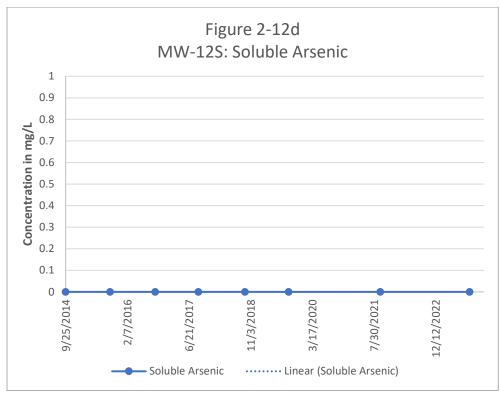




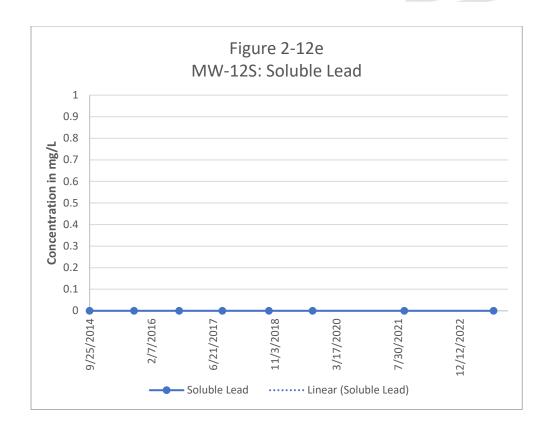




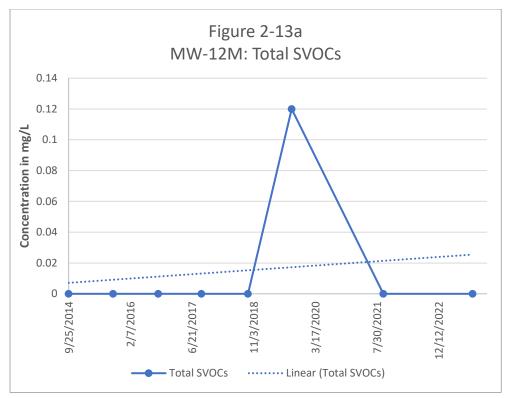


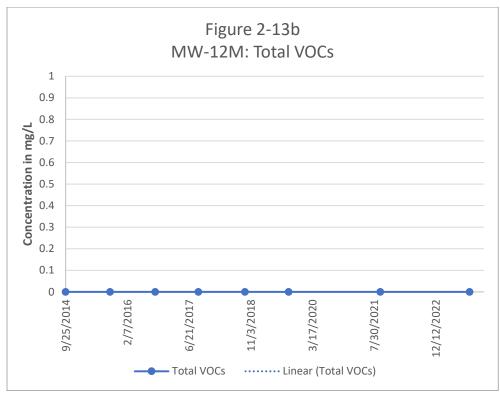




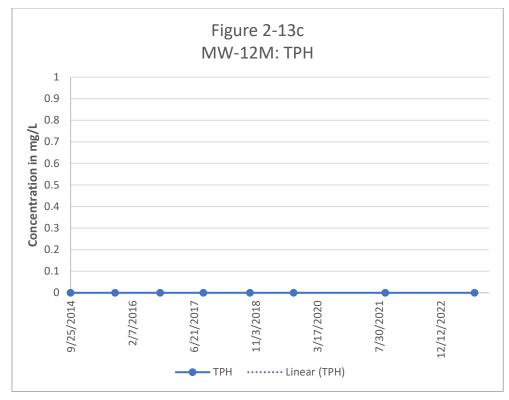


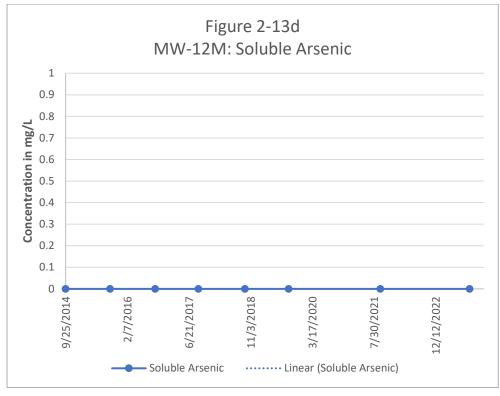




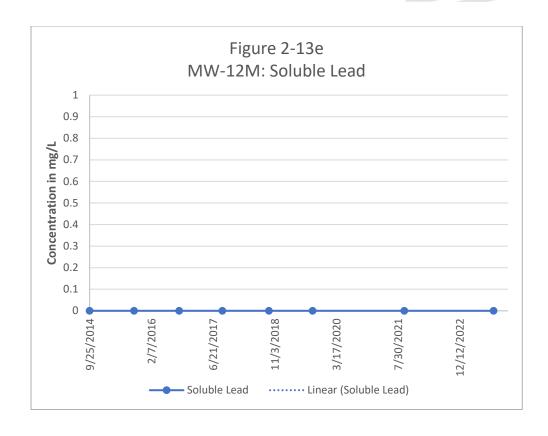




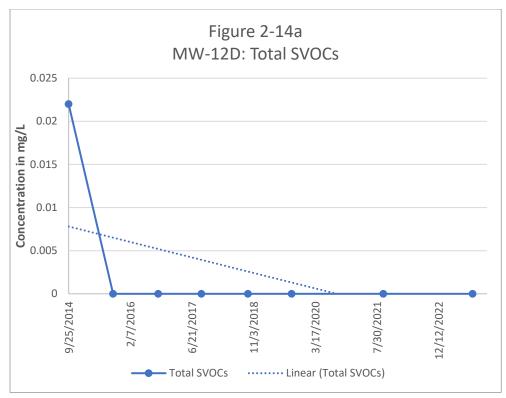


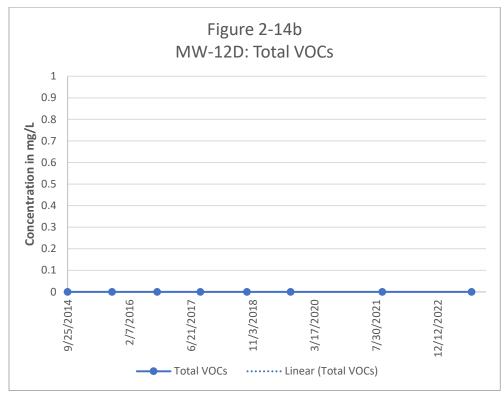




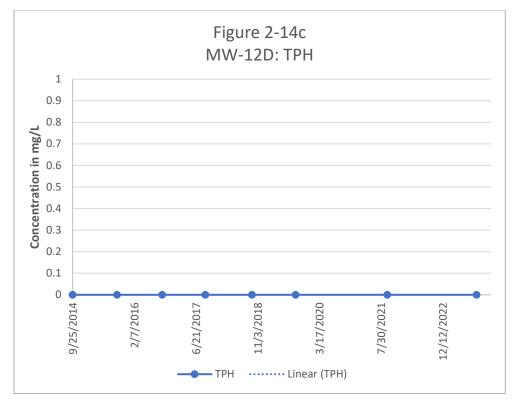


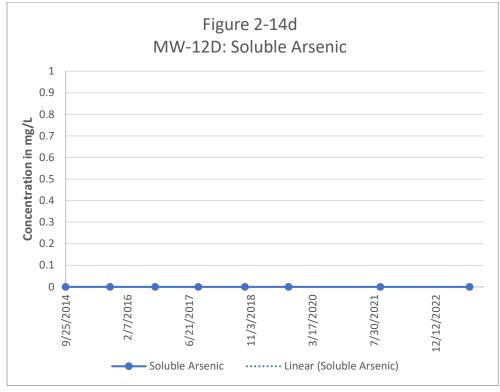




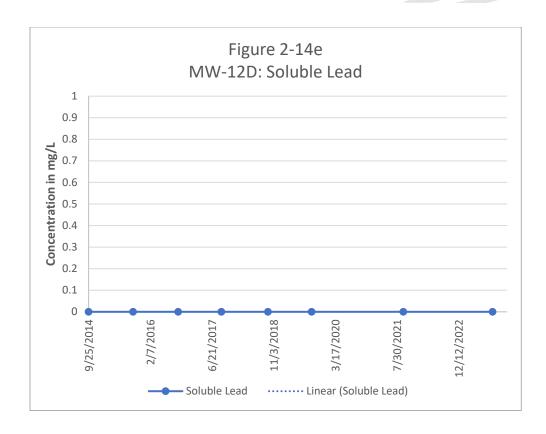




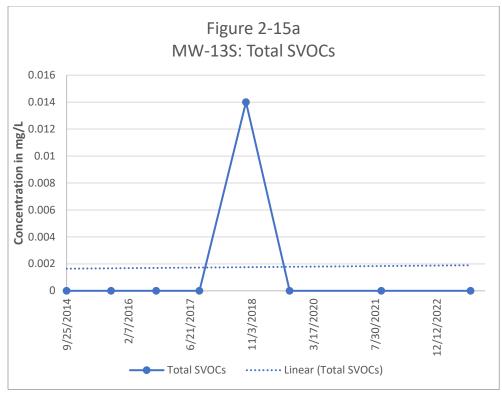


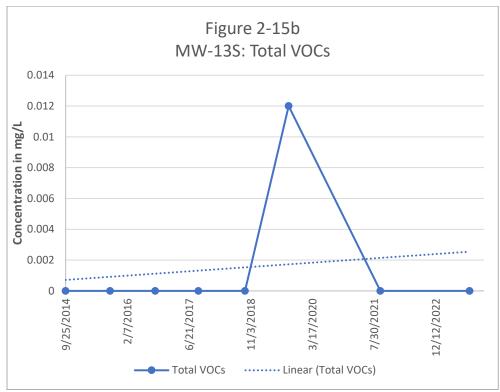




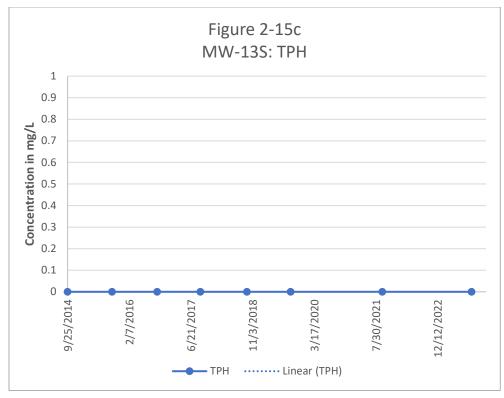


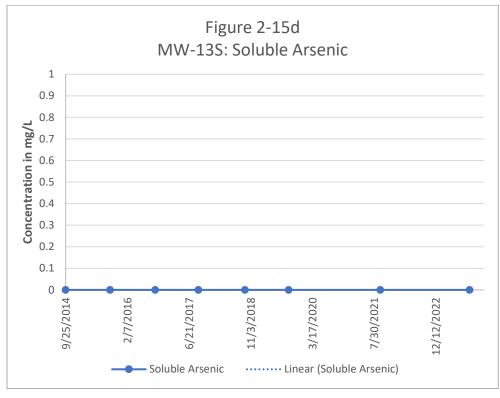




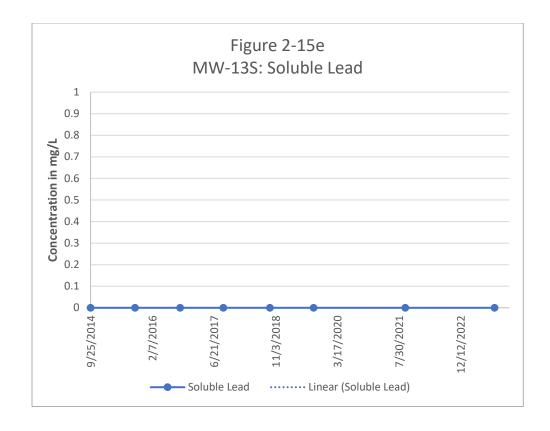




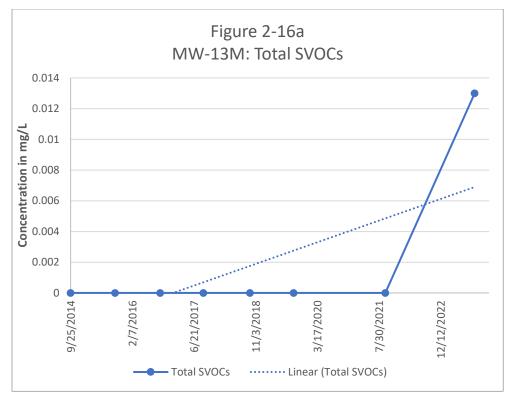


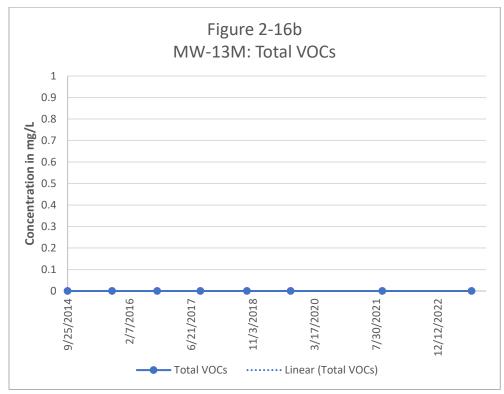




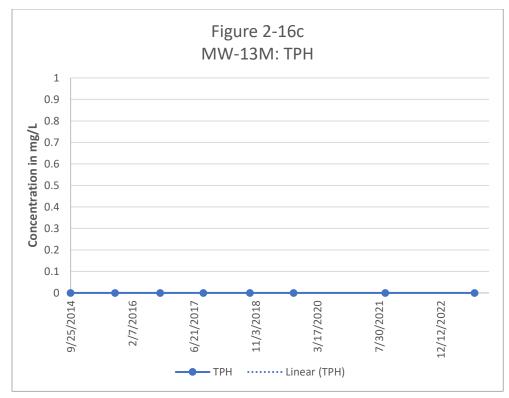


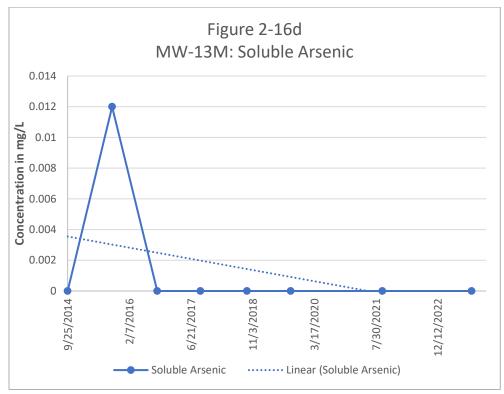




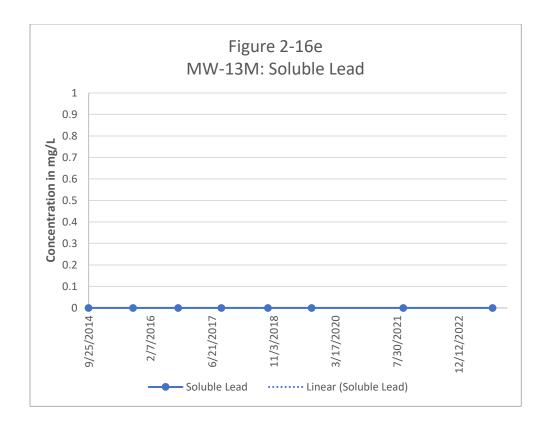




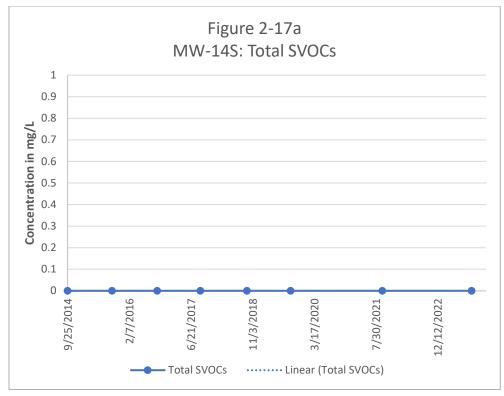


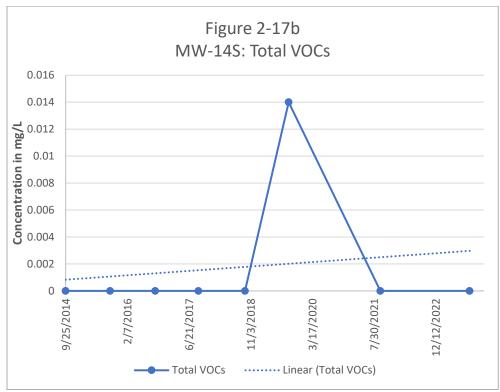




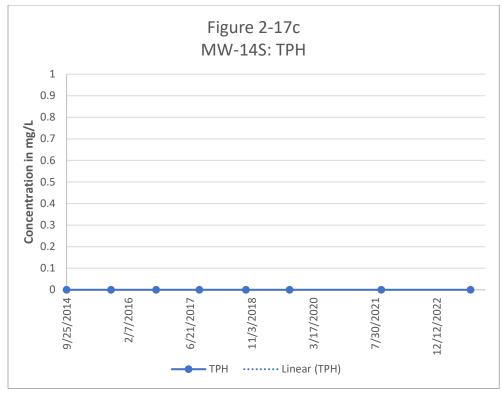


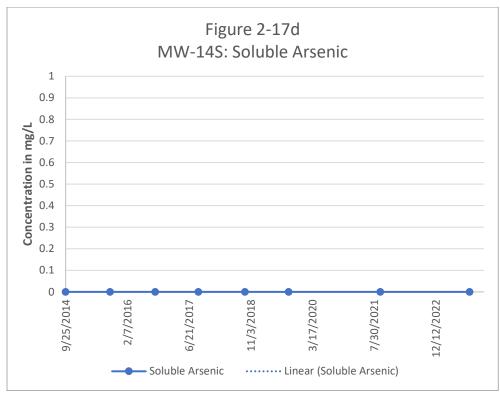




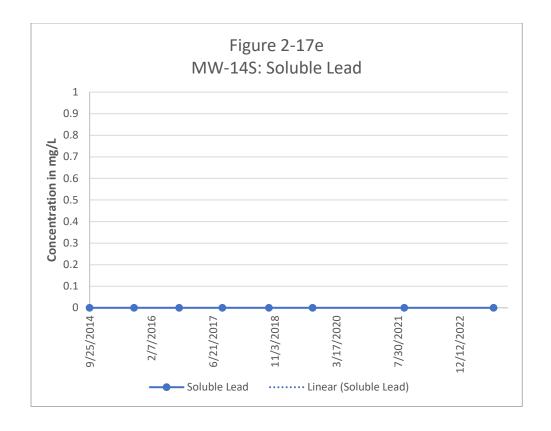














Period: Annual Report for 2024

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)	Prodcut 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 Prodcut 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

NA - not availble due to well not sampled

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

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

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



SHALLOW WELL SVOCs

		NYS	1					
ANALYTE	NYS Water Quality Standard	Water Quality Guidance Value		ANALYTICAL RESULTS (mg/L)				
Well ID		value	MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Dilution			1.00	1.00	1.00	1.00	1.00	
acenapthene		20	ND	ND	ND	ND	ND	0.00089
acenapthylene	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-butlyphthalate	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-chloronapthalene		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-dimethlyphenol		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-methlynapthalene	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		MRL				
Well ID			MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Dilution			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-methlyphenol	1†		ND	ND	ND	ND	ND	0.00089
3+4-methylphenol	1†		ND	ND	ND	ND	ND	0.00089
napthalene		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

 $[\]dagger$ - 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		ANALYTI	CAL RESU	LTS (mg/L)		MRL
Well ID		, , , , , , ,	MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
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
ethlybenzene	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	Average
Outside	Inside
Landfill	Landfill
(MW 10S -	(Table 3-1)
14S)	
0	0.01

Total Oil & Greease (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	ANA	MRL			
Well ID		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MW-10M	MW-11M	MW-12M	MW-13M	
Dilution			1.00	1.00	1.00	1.00	
acenapthene		20	ND	ND	ND	ND	0.0089
acenapthylene	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-butlyphthalate	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-dimethlyphenol		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	ANA	MRL			
Well ID			MW-10M	MW-11M	MW-12M	MW-13M	
Dilution			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-methlynapthalene	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-methlyphenol	1†		ND	ND	ND	ND	0.0089
3+4-methylphenol	1†		ND	ND	ND	ND	0.0089
napthalene		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

 $[\]dagger$ - 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	ANA	LYTICAL I	RESULTS (n	ng/L)	MRL
Well ID		varac	MW-10M	MW-11M	MW-12M	MW-13M	
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
ethlybenzene	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 & Greease (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

 $[\]mbox{\ensuremath{*}}$ - 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 1	RESULTS (mg/L)	MRL
Well ID		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MW-10D	MW-12D	
Dilution			1.00	1.00	
acenapthene		20	ND	ND	0.0089
acenapthylene	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-butlyphthalate	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-dimethlyphenol		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		RESULTS (mg/L)	MRL
Well ID			MW-10D	MW-12D	
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-methlynapthalene	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-methlyphenol	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

 $[\]dagger$ - 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	NYS Water Quality Standard	NYS Water Quality Guidance Value	ANAI	YTICAL RESULTS (mg/L)	MRL
Well ID			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
ethlybenzene	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 & Greease (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

 $[\]mbox{\ensuremath{\mbox{*}}}$ - 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
ТРН	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-1	0M							MW-	10D	
			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
Analyte	CAS No.	NYS Water Quality Standard	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		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	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		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	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND NB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo(k)fluoranthene benzyl alcohol	207-08-9 100-51-6	NR	0.002 NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	INK	50	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	50	- 33	ND	ND ND	ND	ND	ND	ND ND	ND	ND 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	ND
indeno(1,2,3-cd)pyrene	193-39-5		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	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-chloroethoxy)methane	111-91-1	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-chloroethyl)ether 2-chloronapthalene	111-44-4 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	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	1†	10	ND	ND	ND	ND	ND	ND ND	ND ND	ND 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	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 ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND	ND ND
1,4-dichlorobenzene 3,3'-dichlorobenzidine	106-46-7 91-94-1	3 5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 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	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		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	606-20-2 117-81-7	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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-ethylhexyl)phthalate fluoranthene	206-44-0	3	50	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	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	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	5		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	NR	50 NR	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND ND
2-methlynapthalene 2-methylphenol	91-57-6 95-48-7	1†	INK	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
napthalene	91-20-3		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitroaniline	88-74-4	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND NB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-nitroaniline 4-nitroaniline	99-09-2 100-01-6	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-nitroaniline nitrobenzene	98-95-3	0.4		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-nitrophenol		1†		ND	ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND	ND
4-nitrophenol	100-02-7	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitrosodimethylamine	62-75-9	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitrosodiphenylamine			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-octyl phthalate			50	ND	ND	ND	ND	ND	ND	ND NB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pentachlorophenol		1†	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
phenanthrene phenol		1†	30	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-bromophenyl-phenylether		_	NR	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-chlorophenyl-phenylether			NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitroso-di-n-propylamine		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pyrene	129-00-0		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-trichlorophenol		1†		ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND	ND
2,4,6-trichlorophenol	88-06-2	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toal SVOCs		1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1001340CS		-		140	NU	1 140	שאו	140	140	140	140	140	1 110	140	שויו	110	140	110	IVU	140	110	110	שויו	NU	

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)

		ı																							
			Well ID Date	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	MW 9/6/2017	-11S 9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	11M 9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	9/20/2021 mg/L	9/14/2023 mg/L	9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/201/ mg/L	mg/L	9/8/2019 mg/L	mg/L	9/14/2023 mg/L	9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/201/ mg/L	9/18/2018 mg/L	9/8/2019 mg/L	9/20/2021 mg/L	9/14/2023 mg/L	9/25/2014 mg/L	9/21/2015 mg/L	9/21/2016 mg/L	9/6/201/ mg/L
		Standard	Guidance Value	O,	<i></i>	<i>.,</i>	U,	u,	o,	o,		o,	U,	ů,	ů,	o,	0,	Ů,	0,	Ů,	O,	o,	J,	O,	
acenapthene	83-32-9		20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
acenapthylene anthracene	208-96-8	NR	NR 50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	120-12-7 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	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	0.002	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		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	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 benzyl alcohol	207-08-9 100-51-6	NR	0.002 NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	NK	50	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	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	50		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		0.057								0.013								ND				
carbazole	86-74-8	NR	NR 0.003	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND 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 4-chloroaniline	193-39-5 106-47-8	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	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	5		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		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	95-57-8 108-60-1	1† 5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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) 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	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	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	ND	ND	ND	ND ND
1,3-dichlorobenzene 1,4-dichlorobenzene	541-73-1 106-46-7	3		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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		ND	ND	ND	ND	ND	ND 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	ND
dimethyl phthalate	131-11-3 105-67-9		50 50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 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 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	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		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
fluoranthene fluorene	206-44-0 86-73-7		50 50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	- 30	ND	ND	ND	ND	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	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	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
hexachloroethane isophorone	67-72-1 78-59-1	5	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-methlynapthalene	91-57-6	NR	NR NR	ND	ND ND	ND	ND	ND	ND 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 NA	1† 1†		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 napthalene	91-20-3	- 11	10	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
2-nitroaniline	88-74-4	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-nitroaniline	99-09-2	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitroaniline	100-01-6	5 0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
nitrobenzene 2-nitrophenol	98-95-3 88-75-5	1†		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-nitrophenol		1†		ND	ND ND	ND	ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND ND	ND ND	ND	ND	ND ND
n-nitrosodimethylamine	62-75-9	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitrosodiphenylamine			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-octyl phthalate		1†	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
pentachlorophenol phenanthrene		1'	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
phenol	108-95-2	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl-phenylether		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl-phenylether			NR NB	ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND	ND	ND ND
n-nitroso-di-n-propylamine		NR	NR 50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
pyrene 1,2,4-trichlorobenzene		5	30	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2,4,5-trichlorophenol		1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	88-06-2	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						I																ı			
Toal SVOCs		1	Т	ND	0.057	ND	ND	ND	ND	ND	ND	ND	0.013	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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	125							MW	-12M				ı			MW	-12D					
			Date	9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	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
		Standard	Guidance Value																						<u> </u>
acenapthene	83-32-9		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	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
anthracene benzo(a)anthracene	120-12-7 56-55-3		50 0.002	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	50-33-3	>ND	0.002	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND 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		0.002	ND	ND	ND	ND	ND	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	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	ND
butly benzyl phthalate	85-68-7		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 Caprolactum	84-74-2 105-60-2	50 NR	NR	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND
carbazole	86-74-8	NR	NR NR	ND	ND	ND	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		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	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-chloroethoxy)methane	111-91-1	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-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		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	1† 5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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) chrysene	108-60-1 218-01-9	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	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 NR	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND 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 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	91-94-1 120-83-2	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 diethylphthalate	84-66-2	3	50	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	ND
2,4-dimethylphenol	105-67-9		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 fluoranthene	117-81-7 206-44-0	5	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.12 ND	ND ND	ND ND	0.022 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	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	30	ND	ND	ND	ND	ND	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	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	5		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	NR	50 NR	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND
2-methlynapthalene 2-methylphenol	91-57-6 95-48-7	1†	INK	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
napthalene	91-20-3		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitroaniline	88-74-4	5		ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
3-nitroaniline 4-nitroaniline	99-09-2 100-01-6	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
nitrobenzene	98-95-3	0.4		ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-nitrophenol	88-75-5	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	100-02-7	1†		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitrosodimethylamine		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitrosodiphenylamine			50	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	ND
di-n-octyl phthalate pentachlorophenol		1†	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
pentacnioropnenoi phenanthrene		1'	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
phenol		1†		ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND ND	ND
4-bromophenyl-phenylether		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl-phenylether			NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitroso-di-n-propylamine		NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pyrene	129-00-0	 _	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene 2,4,5-trichlorophenol		5 1 [†]		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2,4,5-trichlorophenol				ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2,4,0-61611010	00 JU-L	1 4.	1	110	IVU	טוו	טוו	140	140	1 110	140	טויו ן	IND	IND	1 110	140	140	IND	140	140	וויי ו	טויו ן	140	110	NU
Toal SVOCs				ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND

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-	120							MW-	1284							MW	140			
				Date	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/2023
Analyte		CAS No.	NYS Water Quality	NYS Water Quality	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
			Standard	Guidance Value	_				_								_									
	acenapthene	83-32-9		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	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	anthracene benzo(a)anthracene	120-12-7 56-55-3		50 0.002	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	50-33-8	>ND	0.002	ND ND	ND ND	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND
t	enzo(b)fluoranthene	205-99-2		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	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
I	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 ND
h	benzyl alcohol outly benzyl phthalate	100-51-6 85-68-7	NR	NR 50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	50		ND	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								0.013								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	ND
in	deno(1,2,3-cd)pyrene 4-chloroaniline	193-39-5 106-47-8	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	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
bis(-2-ch	nloroethoxy)methane	111-91-1	5		ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND
	is(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		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2.21	2-chlorophenol	95-57-8	1†		ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	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'-oxy	rbis(1-chloropropane) chrysene	108-60-1 218-01-9	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	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
dik	penzo(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	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 1,4-dichlorobenzene	541-73-1 106-46-7	3		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
3	3,3'-dichlorobenzidine	91-94-1	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	ND
	dimethyl phthalate	131-11-3		50	ND	ND	ND	ND	ND	ND	ND	ND NB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND NB
	2,4-dimethylphenol 2,4-dinitrophenol	105-67-9 51-28-5		50 10	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	10	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	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		ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	fluoranthene	206-44-0 86-73-7		50 50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	fluorene hexachlorobenzene	118-74-1	0.04	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	0.5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
hexacl	hlorocyclopentadiene	77-47-4	5		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 2-methlynapthalene	78-59-1 91-57-6	NR	50 NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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†	INIX	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND
4,6-di	nitro-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
	nloro-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 01 20 2	1†	10	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	napthalene 2-nitroaniline	91-20-3 88-74-4	5	10	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	3-nitroaniline	99-09-2	5		ND	ND	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND
	4-nitroaniline	100-01-6	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	nitrobenzene	98-95-3	0.4		ND	ND	ND	ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND
	2-nitrophenol 4-nitrophenol	88-75-5 100-02-7	1† 1†		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
n-n	4-nitropnenoi nitrosodimethylamine	62-75-9	NR	NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
	nitrosodiphenylamine	86-30-6		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-octyl phthalate	117-84-0		50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pentachlorophenol	87-86-5	1†		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	phenanthrene phenol	85-01-8 108-95-2	1†	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-brom	ophenyl-phenylether	101-55-3	NR	NR	ND ND	ND ND	ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND	ND
	rophenyl-phenylether	7005-72-3	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-nitro	oso-di-n-propylamine	621-64-7	NR	NR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	pyrene 2.4 trichlorehousens	129-00-0		50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
	,2,4-trichlorobenzene 2,4,5-trichlorophenol	120-82-1 95-95-4	5 1†		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	2,4,6-trichlorophenol	88-06-2	1†		ND	ND ND	ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND	ND	ND
	Toal SVOCs				ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND

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				MV	/-10S			
			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
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
·		Standard	Guidance Value	-	-	-	-	-	-	-	
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 10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
cis-1,3-dichloropropene trans-1,3-dichloropropene	10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
ethlybenzene	100-41-4	5		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-hexanone	591-78-6	,	50	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
methylene chloride	75-09-2	5	50	ND	ND ND	ND ND	ND	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	ND ND	ND ND	ND ND
styrene	100-42-5	5		ND	ND ND	ND ND	ND	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	ND
tetrachloroethene	127-18-4	5		ND	ND ND	ND ND	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
<u> </u>											
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

^{* -} 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	-10M			
			Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/19/2021	9/14/202
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
•		Standard	Guidance Value		_	_	_	-	_	-	_
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	ļ	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
ethlybenzene	100-41-4	5		ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
2-hexanone	591-78-6		50	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
methylene chloride	75-09-2	5		ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
4-methyl-2-pentanone (MIBK)	108-10-1 100-42-5	NR 5	NR	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
styrene				ND			ND ND	ND ND	ND ND		ND ND
1,1,2,2-tetrachloroethane tetrachloroethene	79-34-5 127-18-4	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
tetracnioroetnene	108-88-3	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1.1.1-trichloroethane	71-55-6	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1,1-trichioroethane	79-00-5	1		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
trichloroethene	79-00-5	5		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
vinyl chloride	75-01-0	2		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
m+p xylene	75-01-4 NA	5 (each)		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
o-xylene	95-47-6	5 (eacil)		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
0-xylene	33-47-0		l .	ND	I NO	I NO	I NO	110	110	, NO	IND
Total VOCs				ND	ND	ND	ND	ND	ND	ND	ND
.otal vocs											
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 ND	ND ND	ND ND	ND.
SOLUBLE LEAD	7439-92-1	25		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND

Notes

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

^{* -} 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-10D				
			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	11/14/202
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
-		Standard	Guidance Value	_	-	_	_	-	-	-	-	
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
ethlybenzene	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	ND ND	ND ND	ND ND	ND ND	NS NS
1,1,1-trichloroethane	71-55-6	1			ND ND		ND ND			ND ND		NS NS
1,1,2-trichloroethane	79-00-5			ND		ND		ND ND	ND		ND ND	
trichloroethene vinyl chloride	79-01-6 75-01-4	5 2		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS NS
,	75-01-4 NA	5 (each)		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS NS
m+p xylene o-xylene	95-47-6	5 (each)		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS NS
o-xylene	93-47-0	. 5		ND	NU	ND	ND	NU	NU	NU	NU	INS
Total VOCs				ND	ND	ND	ND	0.002	0.01	0.013	ND	NS
Total VOCs		1		ND	ND	IND	NU	0.002	0.01	0.013	ND	11/3
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 ND	ND ND	ND ND	ND	NS NS
SOLUBLE LEAD	7439-92-1	25		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS 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				MV	V-11S			
			Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/202
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Standard	Guidance Value	-	_		-	_	_	_	_
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
ethlybenzene	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
1											
Total VOCs		l		ND	ND	ND	ND	ND	ND	ND	ND
TPH1	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

^{* -} 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)

		j	Well ID				NAVA.	-11M			
			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
Analyte	CAS No.	NYS Water Quality Standard	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 ND	ND ND	ND ND	ND.
chloromethane	74-87-3	5		ND	ND ND	ND ND	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	30	ND ND	ND ND	ND.	ND	ND.	ND ND	ND ND	ND.
1.2-dichloroethane	107-06-2	0.6		ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND
1.1-dichloroethene	75-35-4	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
cis-1.2-dichloroethene	156-59-2	5		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
trans-1,2-dichloroethene	156-60-5	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,2-dichloropropane	78-87-5	1		ND ND	ND ND	ND ND	ND ND	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 ND	ND ND	ND ND	ND ND
trans-1,3-dichloropropene	10061-01-5	0.4*		ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
ethlybenzene	10061-02-0	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-hexanone	591-78-6	3	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
methylene chloride	75-09-2	5	30	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-methyl-2-pentanone (MIBK)	108-10-1	NR NR	NR	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
styrene	100-42-5	5	ININ	ND ND	ND ND	ND ND	ND ND	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	ND ND	ND ND	ND ND
tetrachloroethene	127-18-4	5		ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
toluene	108-88-3	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1,1-trichloroethane	71-55-6	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1,1-trichloroethane	79-00-5	1		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1,2-trichloroethane trichloroethene	79-00-5	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
		2		ND ND	ND ND	ND ND	ND ND		ND ND	ND ND	ND ND
vinyl chloride	75-01-4 NA	5 (each)		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
m+p xylene	95-47-6	5 (eacn)		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
o-xylene	95-47-b			IND	IND	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

^{* -} 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				MV	V-12S			
			Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/202
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
,		Standard	Guidance Value	G.		G.	G.				G,
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
ethlybenzene	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
т-						1	1				
Total VOCs		l		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

^{* -} 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-12M							
			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
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
,		Standard	Guidance Value	-	-	-	-	-	-	-	-
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	ND	ND ND	ND ND
trans-1,3-dichloropropene	10061-02-6	0.4*		ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND
ethlybenzene 2-hexanone	100-41-4 591-78-6	5	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
methylene chloride	75-09-2	5	50	ND ND	ND ND	ND ND	ND ND	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	ND ND	ND ND	ND ND	ND ND
styrene	100-10-1	5	INK	ND ND	ND	ND ND	ND ND	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 ND	ND ND	ND ND	ND ND
tetrachloroethene	127-18-4	5		ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND
toluene	108-88-3	5		ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND
1,1,1-trichloroethane	71-55-6	5		ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND
1,1,2-trichloroethane	79-00-5	1		ND	ND	ND ND	ND ND	ND	ND	ND ND	ND
trichloroethene	79-01-6	5		ND	ND	ND 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
7.2.2.											
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

^{* -} 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)

		j	Well ID				MW	/-12D			
			Date	9/25/2014	9/21/2015	9/21/2016	9/6/2017	9/18/2018	9/8/2019	9/20/2021	9/14/202
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Standard	Guidance Value								
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 0.4*		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
cis-1,3-dichloropropene trans-1,3-dichloropropene	10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
ethlybenzene	10061-02-6	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-hexanone	591-78-6	3	50	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
methylene chloride	75-09-2	5	30	ND ND	ND ND	ND ND	ND ND	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	ND ND	ND ND	ND ND	ND ND
styrene	100-10-1	5	INK	ND ND	ND ND	ND ND	ND ND	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	ND ND	ND ND
tetrachloroethene	127-18-4	5		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
toluene	108-88-3	5		ND	ND ND	ND ND	ND	ND	ND	ND ND	ND ND
1.1.1-trichloroethane	71-55-6	5		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND.
1.1.2-trichloroethane	79-00-5	1		ND	ND ND	ND ND	ND 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
-1		1		1	1	1		1	1	1	
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

^{* -} 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				MV	V-13S			
			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
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
,		Standard	Guidance Value	-	-	-	-	-	-	-	-
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 10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
cis-1,3-dichloropropene trans-1,3-dichloropropene	10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
ethlybenzene	100-41-4	5		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-hexanone	591-78-6	,	50	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
methylene chloride	75-09-2	5	50	ND	ND ND	ND 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 ND	ND ND	ND ND
styrene	100-42-5	5		ND	ND ND	ND 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
<u> </u>											
Total VOCs				ND	ND	ND	ND	ND	0.012	ND	ND
.1		1			1		1		1		1
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

^{* -} 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 acetone benzene bromodichloromethane bromoform bromomethane 2-butanone (MEK) carbon disulfide carbon tetrachloride chlorobenzene chloroethane chloromethane dibromochloromethane dibromochloromethane	CAS No. 67-64-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	NYS Water Quality Standard 1 5 NR 5 5 5 5	Date NYS Water Quality Guidance Value 50 50 50 50 NR	9/25/2014 mg/L ND ND ND ND ND ND	9/21/2015 mg/L ND ND ND ND ND	9/21/2016 mg/L ND ND ND ND	9/6/2017 mg/L ND ND ND	9/18/2018 mg/L ND ND	9/8/2019 mg/L ND ND	9/20/2021 mg/L ND	9/14/2023 mg/L
acetone benzene bromodichloromethane bromomethane 2-butanone (MEK) carbon disulfide carbon tetrachloride chlorofemane chlorofethane chlorofemane dibromochloromethane	67-64-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	Standard 1 5 NR 5 5	50 50 50 50 50	ND ND ND ND ND	ND ND ND	ND ND ND	ND ND	ND ND	ND	ND ND	
benzene bromodichloromethane bromoform bromomethane 2-butanone (MEK) carbon disuffide carbon tetrachloride chlorobenzene chlorotethane chloroform chloroform chloromethane dibromochloromethane	71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	1 5 NR 5 5 5	50 50 50 50	ND ND ND ND	ND ND ND	ND ND	ND	ND			ND
benzene bromodichloromethane bromoform bromomethane 2-butanone (MEK) carbon disuffide carbon tetrachloride chlorobenzene chlorotethane chloroform chloroform chloromethane dibromochloromethane	71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	5 NR 5	50 50	ND ND ND ND	ND ND ND	ND ND	ND	ND			ND
bromodichloromethane bromoform bromomethane 2-butanone (MEK) carbon disulfide carbon tetrachloride chlorobenzene chloroethane chloroform chloroform dibromochloromethane	75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	5 NR 5	50	ND ND ND ND	ND ND	ND			ND		
bromoform bromomethane 2-butanone (MEK) carbon disulfide carbon tetrachloride chlorobenzene chloroethane chloroform chloromethane dibromochloromethane	75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	NR 5 5	50	ND ND ND	ND		ND			ND	ND
bromomethane 2-butanone (MEK) carbon disulfide carbon tetrachloride chlorobenzene chloroethane chloroform chloromethane dibromochloromethane	74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	NR 5 5	50	ND ND		ND		ND	ND	ND	ND
2-butanone (MEK) carbon disulfide carbon tetrachloride chlorobenzene chloroethane chloroform chloromethane dibromochloromethane	78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	NR 5 5		ND	ND	ND	ND	ND	ND	ND	ND
carbon disulfide carbon tetrachloride chlorobenzene chloroethane chloroform chloromethane dibromochloromethane	75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	5 5				ND	ND	ND	ND	ND	ND
carbon tetrachloride chlorobenzene chloroethane chloroform chloromethane dibromochloromethane	56-23-5 108-90-7 75-00-3 67-66-3	5 5	NR		ND	ND	ND	ND	ND	ND	ND
chlorobenzene chloroethane chloroform chloromethane dibromochloromethane	108-90-7 75-00-3 67-66-3	5		ND	ND	ND	ND	ND	ND	ND	ND
chloroethane chloroform chloromethane dibromochloromethane	75-00-3 67-66-3			ND	ND	ND	ND	ND	ND	ND	ND
chloroform chloromethane dibromochloromethane	67-66-3			ND	ND	ND	ND	ND	ND	ND	ND
chloromethane dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND
dibromochloromethane	74-87-3	7		ND	ND	ND	ND	ND	ND	ND	ND
		5		ND	ND	ND	ND	ND	ND	ND	ND
1 1 dieleleneathere	124-48-1		50	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichioroethane	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
	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
	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.
****	7440-38-2	25		ND	0.012	ND ND	ND	ND ND	ND ND	ND ND	ND ND
	7440-38-2	25		ND ND	0.012 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND

Notes

Bolded results exceed NYS Ambient Water Quality Standards.

ND - Analyte not detected in Sample

^{* -} 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)

		1	Well ID				MV	V-14S			
			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
Analyte	CAS No.	NYS Water Quality	NYS Water Quality	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Standard	Guidance Value								
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 ND	ND ND	ND ND	ND
trans-1,2-dichloroethene	156-60-5 78-87-5	5		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,2-dichloropropane cis-1,3-dichloropropene	10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
trans-1,3-dichloropropene	10061-01-5	0.4*		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
ethlybenzene	100-41-4	5		ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND
2-hexanone	591-78-6	,	50	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND
methylene chloride	75-09-2	5	50	ND	ND ND	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	ND	ND	ND
styrene	100-42-5	5		ND	ND ND	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
<u> </u>											
Total VOCs				ND	ND	ND	ND	ND	0.014	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

^{* -} 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

	ı		1		ı		
Well Number	Temperature (Celcius)	рН	ORP (mV)	Conductivity (ms/cm)	Turbidity (BTU)	Disloved 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



Period: Annual Report for 2024

APPENDIX A FIELD NOTES

/13/2024 SUNNY NY BOOF MQ24 Cheek towagh, NY Bampling	3/7/2024 SUNDY ~ 37° F 23
150 - UMC on-Site, gate open and hain Cut ne totalizer temp oo 164482 450 NA 15 64785 50 15 656 50 100 1659 58	Cheeltowaga, Ny Vnion Road 1 Q 24 Discharge Sampling Event 0755 - VMC on-site, vnlocked the gates and the Shed * pvmp fell below low-level, Suvt off vntil 0915 time totalizer temp.
ao: UMC observed a downed tree the east fence of the landfill, nc removed the tree from the ndfill portion of the Site.	0815 172373 // 0= 0830 179889 50 50 6 0845 173353 519 519 6 0915 17369 519 6 0915 17360 1 499 6
Be ogls - UMC off-site ofter ompleting a quick site tour, he gates are locked and the shod is closed.	ogao-vmc took the 10ay Efficient sample 5940-vmc off-6ite, closed the Shed and the gate
	Rite in the Rain.

24 5/1/24 Sunny ~ 50°F cheektowaga, Ny 2024 Discharge Sampling Event 0755 - UMC 01-site, gate and shed opened; no problems time totalizer temp ph 0825 188145 11.00 7.16 0840 188798 11.00 7.16 0855 188878 16.5°C 7.69 0855 188878 51/144 14.3°C 6-96 183976 51/144 14.3°C 7.20 0855 pvmp feli below low-level turned off vntil 0905	6/4) Ny El 070 940 089
0855- PVMP fell below low-level turned off vntil 0905 0915- Sample 2 Q24 taken: Tph, phenols = grab lead, TSS = Comp.	093
0930- UMC off-site, garte and shed Closed, no problems	Not

1024 SVARY ~ 70°F Cheektowaga, Ctric Flowmeter Replacement Ste up heep Event opened, no problems Replaced all of the well locks well pads CMW-125, MW-12M Mw-120, Mw-118, Mw-11m) Gold one Solutions is On-Site Took GPS (oordinates of all exterior wells Curaypoints under union Road? : Photographs or erosion were impossible dre to overgrown regretation obscuring view

Rite in the Rain.

26 6/9 Ny	1/2024	SVANY	~ 70° F	cheek	to waga,
		done illag d	Solut-	ions f	rished Flowneter tostanen
1037-	Comp	ole tec	Site	2 - Wa	(R
					I interior
1900-	well tag	pleted 1 borin en	Mapp,	ng the	photos
19,05	· VMC	off.	-site	nd lo	er Closing
	142	7		· .	
		•			
			\$ 1 m		7 1

8/Ao/aoay cloudy	N bo°F cheektowaga
Union Road 3 Discharge Samp	Qay Efficient
0750 - UMC ON- site gate (Key bia	ken) RM 3/20/24
time totalize	pt tem.
0800 212512 0815 212681	13.54°C 7.17
0830 9/3795	13.2°C 7.23
0845 314/85	14.18 (7.23
<u> </u>	
0915- Sample 300	
	e to procyp.
0925 - Unc off-sit equipment f	or the voice road

Rite in the Rain.

28 8/a	/A024 (lardy n	/bo°F ch	leektow.	nga, Ny
			ay Bi Gaug		
1030-	· Umc o	n-site	to beg	in MW	g of ging
13:34	- VM[oft	site to	get	rnch
14:00 _	UMC	01-51	te to	continu	e MW
	g ave		site a	fter o	gavging
	Mw	site	peri	me ter	07
		***************************************	-		
		- Aug			
				,	
				Company	

8/21/2024 Sunny N 55°F Cheekto waga,
Union Road 2024 Bi-Annval
Union Road 2024 Bi-Annval Monitoring Well Garging Event (continued)
92 te/ferce/shed with no 1855es
2820- LMC begins garging MW on the parimeter of the Site
13:30- UNC OFF-Site For Lynch
[4:00- une back on-site to
[6:30 - VMC off-site after Completing the garging of Some Monitoring Wells
5 ome Monitoring Wells

Rite in the Rain.

32 11/14/2024 5 VMy ~ 45° F chee R	o Way
NY '	Efficat Samolina
40 ay Efficent Sampling Ev	time to talize- PH/ Temp.
0800- UMC on-Site able to opth all except for the shed Cossibly rus	ed 1130* 228658 6.99 11.35°C
DV+)	1145* 228312 6.89 11.50 6
0890 - Tim Sonnor (tri-county tool a	13 0x 22 93 17 6 94 11 38 13 15 x 22 94 00 7. 01 1). 16
(Portal on-Site) and begins and fill cap Mowing	* at 11% the low-level alarm
6920 - Aaron (Brealo Lock out Service	es) = a(+ vated, pund va) tuned off es) = until 1145, also 147 to 12;00, 2016025
arrived on-site and began stilling	9 YQAY Sample (Tolf, phenol5=grab)
1030 - Aaron Off-Site after replace	(TSS local = comp.) Laken at Bia.
the shed lock	MW-10D Sampling.
1030 - UMC off-site to pick up equip	Ment Well Sheet for more intormation
	1330 - VAC OFF-5 te after
11/10 - UMC ON-Site after picking a equipment at Place	
	Rite in the Rain.

Union Road Site Cheektowaga, NY Project Number: 2011-300

Cooler Packing Form

Sampling Ev	rent 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	3 Qay Effirent	AS	GW	8/20/24	0915	4	T5	RM	TS	MO
2	MW-10D	A5	GW	8/20/24	1536	1	TS	RM	75	Mo
3								,		
4								7		
5										
6										
7						×				
8						7				
9										
10										
11										
12		1	•							
13										
14										
15										
16										
17										
18										
19										
20			ž.							
	:: AS= Analytical Sample; EB= Ed :: Soil= Soil: Sed= Sediment: GW=						A			

Well ID: MW- 10 D Date: 11/14/3.24
Site Location/ Job #: VMion Road
Project Manager: Rig by Mich ap 15 en
Worksheet Completed by:
Project Manager: Rig by Michaelsen Worksheet Completed by: 11 Weather Conditions: Sunny ~ 50° F
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):N <
Well Depth (ft.): 48.35 - Depth to water (ft.): 68 = 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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
2 0.163 8 2.61 3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): $5 \cdot 33$ Well volumes to be purged (gal.): $15 \cdot 63$
STEP TWO: PURGE THE WELL
Purging method: Time purging began: 250 Volume actually purged (gal.):
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) 9.75 8.43 4.63 0.0 3.5
9.75 8.43 6 1.63 0.0 2.35
STEP THREE: SAMPLE THE WELL
Sampling Method: bailer Sample ID: MW- lop Sample Time: 330
QA/QC Sample: Yes No
Sampling Method: No Sample ID: No Sample Time: No
Sample ID. Sample Time.
Comments/Notes/Repairs? Very little water in the well at time of
Sampling priging. A possible broken Well acreen around 20
Comments/Notes/Repairs? Very little water in the well at time of Sampling I purging: A possible broken well screen around 20 ft 695.

Well ID: $10-5$ Date: $8/21/24$
Site Location/ Job #: Zoll - 200
Project Manager: Risky Michaellos
Worksheet Completed by: Toling Sisco
Site Location/Job#: 2011 Project Manager: Righy Michaellon Worksheet Completed by: Tobias Siscu Weather Conditions: 60°4 Sungy
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):
Well Depth (ft.): 20.6 - Depth to water (ft.): 0.5 = 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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
2 0.163 8 2.61 3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): $\frac{1.55}{1.55}$ x 3 = Well volumes to be purged (gal.): $\frac{4.55}{1.55}$
STEP TWO: PURGE THE WELL
Purging method: Time purging began: Volume actually purged (gal.): 5 Time purging ended:
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 ($^{\circ}$ C) pH ORP ($^{\circ}$ NTU DO ($^{\circ}$ Mg/L)
14.12 7,26 -113 0.854 344 6.63
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time: NA
QA/QC Sample: Yes □ No ☑
Sampling Method: $\triangle A$ Sample ID: $\triangle A$ Sample Time: $\triangle A$
Comments/Notes/Repairs? Ofange distits placet on the ballot
Comments/Notes/Repairs? Orange diplets placet on the ballor

CROUNDWA	TER	SAMPI	ING FIEL	n	WORKSHEET
CTRUUND VV P		SAIVIL	TINCT PLEAT	w	

Well ID: _	10 - M	Date: 8/20/2	4	
Site Location/ Job #: 2011 - 200				
Project Manager: Right Michaelia				
Project Manager: Right Michaelium Worksheet Completed by: Toling Sisco				
Weather Conditions: 60° C Cloudy				
STEP ONE: TAKE INITIAL MEASUREM	ENTS and C	OMPLETE CALC	CULATIONS	
Well Diameter (in.):2				
PID (ppm):				
Depth to Product (ft):				
Well Depth (ft.): 33.5 - Depth to wa	ter (ft.): <u>\}</u>	.9 = Heigh	nt of Water Col	umn (ft.): 19,7
Multiply the height of the water column by the appropri	ate multiplication f	actor according to well dia	meter as shown in th	ne tables below:
Well Diameter (inches) Multiplication Fact 1 0.041	tor	Well Diameter (inch		ation Factor 47
2 0.163 3 0.367		8 10		61 08
4 0.653		12		87
Volume of water in the well (gal.): 3,2	x3 =	Well volumes to b	e purged (gal.)	9.63
STEP TWO: PURGE THE WELL				
Purging method:	Tin	ne purging began:	1428	
Volume actually purged (gal.):()		ne purging ended:	1453	
Did the well purge dry?	Yes □	No 🗹		
Was free product/sheen present in the well?	Yes \square	No 🗹	Sheen	
Record the following parameters at the time of	Sampling.			
Temp (°C) pH	ORP (mV)	Cond. (ms/cm)	NTU	DO (mg/L)
13,12 6.66	-70	2.60	47.4	3.4/
STEP THREE: SAMPLE THE WELL				
Sampling Method:	Sam	ple ID:	\$	Sample Time:
	_			•
QA/QC Sample: Yes \(\square\) No	Com	ulo ID.		Comple Time:
Sampling Method:	Sam	ple ID:		Sample Time:
Comments/Notes/Repairs?				
Comments/140tes/16pans:			are Addition of	

Monitoring Well Purging (DCN 0001-023) Unicorn Management Consultants, 52 Federal Road, Danbury, CT 06810

Well ID: MW- 10 D Date: 11/14/3.24
Site Location/ Job #: VMion Road
Project Manager: Rig by Mich ap 15 en
Worksheet Completed by:
Project Manager: Rig by Michaelsen Worksheet Completed by: 11 Weather Conditions: Sunny ~ 50° F
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):N <
Well Depth (ft.): 48.35 - Depth to water (ft.): 68 = 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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
2 0.163 8 2.61 3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): $5 \cdot 33$ Well volumes to be purged (gal.): $15 \cdot 63$
STEP TWO: PURGE THE WELL
Purging method: Time purging began: 250 Volume actually purged (gal.):
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) 9.75 8.43 4.63 0.0 3.5
9.75 8.43 6 1.63 0.0 2.35
STEP THREE: SAMPLE THE WELL
Sampling Method: bailer Sample ID: MW- lop Sample Time: 330
QA/QC Sample: Yes No
Sampling Method: No Sample ID: No Sample Time: No
Sample ID. Sample Time.
Comments/Notes/Repairs? Very little water in the well at time of
Sampling purging. A possible broken Well acreen around 20
Comments/Notes/Repairs? Very little water in the well at time of Sampling I purging: A possible broken well screen around 20 ft 695.

Well ID: Date: 8/2//24
Site Location/ Job #: 7.1 - 2.00
Project Manager: Rigby Michaelson
Worksheet Completed by: Tilian Silian
Site Location/ Job #: 2:11 - 2:00 Project Manager: Rigby Michaelson Worksheet Completed by: Tilico Weather Conditions: 55'F, Sunny

STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):
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 FactorWell Diameter (inches)Multiplication Factor10.04161.47
2 0.163 8 2.61 3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): 1.70 $\mathbf{x} 3 = $ Well volumes to be purged (gal.): 5.11
STEP TWO: PURGE THE WELL
Purging method: Volume actually purged (gal.): Time purging began: Time purging ended: 08/6 08/6
Volume actually purged (gal.): 5 Time purging ended: 0836
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)
12.62 7.07 -13 1.14 42.6 3.45
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time: NA
QA/QC Sample: Yes \square No \square
Sampling Method: NA Sample ID: NA Sample Time: NA
Sample 12.
Comments/Notes/Repairs?

Well ID: $\frac{1}{M}$ Date: $\frac{08}{3}/\frac{30}{3}$
Site Location/Job #: 2011-200 Project Manager: Rigby Michaelson Worksheet Completed by: Rigby Michaelson Weather Conditions: Sunny N 550 F
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.): 2 PID (ppm): $0 \cdot 0$ Depth to Product (ft): $1 \cdot 5$ Well Depth (ft.): $3 \cdot 65$ - Depth to water (ft.): $20 \cdot 11$ = Height of Water Column (ft.): $1 \cdot 57$
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
STEP TWO: PURGE THE WELL Purging method: Time purging began:
Volume actually purged (gal.): Time purging ended:
Did the well purge dry? Yes □ No ☒
Was free product/sheen present in the well? Yes □ No \(\text{\text{D}}\) Sheen □
Record the following parameters at the time of sampling: Temp (°C) pH ORP (mV) Cond. (ms/cm) NTU DO (mg/L) 2, 6 7, 0 -8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STEP THREE: SAMPLE THE WELL Sampling Method:
QA/QC Sample: Yes No Sample ID: A Sample Time: Sample Time: Sample Time: A Sample Time:
Comments/Notes/Repairs? Well Water had a distinctive methane-like Smell

Well ID: 12-M Date: 8/20/24
Site Location/ Job #: 20 -200
Project Manager: Rigby Michaelson
Worksheet Completed by: Tukins Sigco
Worksheet Completed by: Tukins Sigco Weather Conditions: Paffly Cloudy 63°F
Weather Conditions.
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
2 0.163 8 2.61 3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): 3 , 90 \mathbf{x} 3 = Well volumes to be purged (gal.): 1 , 6 7
STEP TWO: PURGE THE WELL
Purging method: Salle Time purging began: 1225
Volume actually purged (gal.): Time purging ended:
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)
13.75 7.52 89 0.54 1.4 1.96
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time:
QA/QC Sample: Yes □ No ☑ Sampling Method: NA Sample ID: NA Sample Time:
Sampling Method: NA Sample ID: NA Sample Time:
Comments/Notes/Repairs?
Comments Protes Repairs:

Well ID: $\frac{ \partial D }{\partial \partial A}$ Date: $\frac{8}{9} \frac{ \partial A }{\partial \partial A}$
Site Location/ Job #: $201-200$ Project Manager: $201-200$ Worksheet Completed by: $201-200$ Weather Conditions: $201-200$ Weather Conditions: $201-200$
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm): $O \cdot O$ Depth to Product (ft): NA RM 8/21/2024 18.3 o Well Depth (ft.): A Depth to water (ft.): A Height of Water Column (ft.): A
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 Well Diameter (inches) Multiplication Factor
STEP TWO: PURGE THE WELL Purging method:
Purging method: Time purging began: 10.3 v Volume actually purged (gal.): 22 Time purging ended: 11.25
Did the well purge dry? Yes No Yes
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) (Y, 00 7.70 - 0 0.65 0.0 2.5
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time:
QA/QC Sample: Yes
Comments/Notes/Repairs?

Well ID: 135	Date: $8/2\sqrt{24}$
Site Location/ Job #: 2011 - 200	
Project Manager: Rlyly Michaellon Worksheet Completed by: Tublas Sisco	
Worksheet Completed by: Toblas Sisco	· · · · · · · · · · · · · · · · · · ·
Weather Conditions: Cloudy 60°F	
STEP ONE: TAKE INITIAL MEASUREMENTS an	d COMPLETE CALCULATIONS
Well Diameter (in.): 2	
PID (ppm):	
Depth to Product (ft): NA	
Well Depth (ft.): 23.6 - Depth to water (ft.):	$\sqrt{2.9}$ = Height of Water Column (ft.): $\sqrt{0.9}$
Multiply the height of the water column by the appropriate multiplication Well Diameter (inches) Multiplication Factor	ation factor according to well diameter as shown in the tables below: Well Diameter (inches) Multiplication Factor
1 0.041	6 1.47
2 0.163 3 0.367	8 2.61 10 4.08
4 0.653	12 5.87
Volume of water in the well (gal.): $\frac{\sqrt{78}}{}$ x 3 =	= Well volumes to be purged (gal.): 5.33
STEP TWO: PURGE THE WELL	
Purging method: Ballor Ba	Time purging began:
Volume actually purged (gal.): 5	Time purging ended: 1/23
Did the well purge dry? Yes	□ No □
Was free product/sheen present in the well? Yes	□ No □ Sheen □
December of the fellowing and the stime of compline	
Record the following parameters at the time of sampling Temp (°C) pH ORP (mV	
14.66 7.15 -130	0.908 \07 6.47
STEP THREE: SAMPLE THE WELL	
	Sample ID: Sample Time:
QA/QC Sample: Yes \square No \square	Consula ID.
Sampling Method: S	Sample ID: Sample Time:
Comments/Notes/Renairs?	
Comments/Notes/Repairs?	
	· -
·	,

Well ID: 13M Date: 08/20/2024
Site Location/ Job #: 301/- 300
Project Manager: Righy Michaelsen
Project Manager: Rigby Michaelsen Worksheet Completed by: Rigby Michaelsen
Weather Conditions: Clordy N 60° F
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):Q
PID (ppm):
Depth to Product (ft): NA
Well Depth (ft.): 35.9 - Depth to water (ft.): 3.9 = Height of Water Column (ft.): 3.00
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
3 0.367 10 4.08
275
Volume of water in the well (gal.): 3.75 x 3 = Well volumes to be purged (gal.): 1.35
STEP TWO: PURGE THE WELL
Purging method: Time purging began: Volume actually purged (gal.): Time purging ended: Time purging ended:
Volume actually purged (gal.): 11 1 Time purging ended: 11 i95
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)
14.46 7.58 -105 1.04 308 2.32
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
Sampling Method. 1977 Sample 12. 1977
Comments/Notes/Repairs?

Well ID: 14-5 Date: 8/2/124
Site Leasting/Joh #: Zull - Zull
Site Location/ Job #: Zoll Zoll Project Manager: Righy Michaelson Worksheet Completed by: Tollad Sisco Weather Conditions: 65 'F Sunny
Worksheet Completed by: Tollad S/Sc.
Weather Conditions: (5 'F Synny
weather conditions
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
2 0.163 8 2.61 3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): 1.24 $\times 3 =$ Well volumes to be purged (gal.): 3.72
STEP TWO: PURGE THE WELL
Purging method: Time purging began:
Volume actually purged (gal.): Time purging edgal. Time purging ended: \[\sum_27 \]
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)
13.36 6.97 161 1.53 0.0 5.37
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time:
QA/QC Sample: Yes □ No □
Sampling Method: Sample ID: Sample Time:
Comments/Notes/Repairs? Lots of clarge sediment in the
Water,

Well ID: 15 Date: $8/2/24$
Site Location/ Job #: 2011 - 200
Project Manager: Righy Michaellan
Worksheet Completed by: Tobias Sisco
Weather Conditions: 65'f Sunay
Weather Conditions
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):
Well Depth (ft.): 24.2 - Depth to water (ft.): $\boxed{6}$ = Height of Water Column (ft.): $\boxed{8}$
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
3 0.367 10 4.08
4 0.653 12 5.87
Volume of water in the well (gal.): 32 well volumes to be purged (gal.): 3.94
STEP TWO: PURGE THE WELL
Purging method: Time purging began: Who is to be a second of the second
Volume actually purged (gal.): Time purging ended: 1420
Did the well purge dry? Yes □ No □
Was free product/sheen present in the well? Yes \square No \square Sheen \square
Record the following parameters at the time of sampling:
Temp (°C) pH ORP (mV) Cond. (ms/cm) NTU DO (mg/L)
6.97 -103 1.14 366 2.74
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? Extremly Muddy, J-1k Water
'

Monitoring Well Purging (DCN 0001-023) Unicorn Management Consultants, 52 Federal Road, Danbury, CT 06810

Well ID: 16 Date: 8/21/24
Site Location/ Job #: 2011 - 200 Project Manager: Rigby Michaelson
Businet Managem D 19by M Charley
Wednesd Considered by Tolice (SC)
Worksheet Completed by: Tobias Slice Weather Conditions: 65'F Pathy Clivity
weather Conditions. 831 119 Ct 37
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):0
Depth to Product (ft):
Well Depth (ft.): 24.90 - 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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47 2 0.163 8 2.61
3 0.367 10 4.08 4 0.653 12 5.87
Volume of water in the well (gal.): $\sqrt{\frac{1}{9}}$ $\mathbf{x} 3 = \mathbf{Well}$ volumes to be purged (gal.): 4.77
STEP TWO: PURGE THE WELL
Purging method: Time purging began:
Volume actually purged (gal.): 5 Time purging ended: 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)
14.82 7.11 -101 1.99 442 2.82
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time: NA
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Sampling Method: NA Sample ID: / VA Sample Time: NA
Comments/Notes/Repairs? Water was Mulky

Well ID: 17 Date: 08/21/2024
Site Location/Job #: 20 11-200 Project Manager: Rigby Michaelsen Worksheet Completed by: Rigby Michaelsen Weather Conditions: SJANY N 75 1
Project Manager: Rigby Michaelsen
Worksheet Completed by: Right Michael 5ºn
Weather Conditions: $5J \wedge 4 \sim 75^{\circ} \Gamma$
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):
Well Depth (ft.): $\frac{9}{9}$ - Depth to water (ft.): $\frac{9}{0}$ - Height of Water Column (ft.):
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47 2 0.163 8 2.61
3 0.367 4 0.653 10 4.08 12 5.87
Volume of water in the well (gal.): $\sqrt{7}$ $\mathbf{x} 3 = $ Well volumes to be purged (gal.): $$
STEP TWO: PURGE THE WELL
Purging method: Note that the bailer Time purging began: Volume actually purged (gal.): 5 Time purging ended: 5:50
Volume actually purged (gal.): Time purging ended: (b.o.5
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) 3.20 3.20 3.20
3. d7 6.85 -69 3. 20 629 9.45
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time: NA
QA/QC Sample: Yes \(\Bar{\text{No}} \\ \Dar{\text{No}} \\ \Bar{\text{V}}
Sampling Method: NA Sample ID: NA Sample Time: NA
Comments/Notes/Repairs? Water was my lay and grey

Well ID: 18 Date: 8/21/24
Site Location/ Job #: 2011 - 200 Project Manager: Righy Michaels on Worksheet Completed by: Tobias Sisco Weather Conditions: 70° F Suncy
Project Manager: Righy Michaels of
Worksheet Completed by: Tobias Sisco
Weather Conditions: 70°F Sunny
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm):
Depth to Product (ft):
Well Depth (ft.):
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
3 0.367 10 4.08
Volume of water in the well (gal.): \sqrt{A} x 3 = Well volumes to be purged (gal.): \sqrt{A}
STEP TWO: PURGE THE WELL
Purging method: Time purging began:
Volume actually purged (gal.): Time purging ended: //
Did the well purge dry? Yes \square No \square
Was free product/sheen present in the well? Yes \square No \square Sheen \square
Record the following parameters at the time of sampling:
Temp (°C) pH ORP (mV) Cond. (ms/cm) NTU DO (mg/L)
L NA I NA I NA I NA I NA
STEP THREE: SAMPLE THE WELL
Sampling Method: MA Sample ID: NH Sample Time: MA
QA/QC Sample: Yes □ No □
Sampling Method: NA Sample ID: NA Sample Time: NA
Comments/Notes/Repairs? WWW Well is dig

Monitoring Well Purging (DCN 0001-023) Unicorn Management Consultants, 52 Federal Road, Danbury, CT 06810

Well ID: $\frac{9}{2}$ Date: $\frac{8}{2}/\frac{3}{2}$
Site Location/ Joh #: Q6 / - Q60
Project Manager: Right Michaelsen
Site Location/ Job #: 26 - 260 Project Manager: Rigby Michael Sen Worksheet Completed by: Rigby Michael Sen Weather Conditions: Clovdy ~ 76 F
Weather Conditions: Clov() y ~ 76° F
Wedner Conditions.
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm): <u>○ . ○</u>
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47
2 0.163 8 2.61 3 0.367 10 4.08
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Volume of water in the well (gal.): $(3 - x)^3 = 0$ Well volumes to be purged (gal.): $(3 - x)^3 = 0$
STEP TWO: PURGE THE WELL
Purging method: Time purging began: $\frac{ Y', \lambda_0 }{ Y', \lambda_0 }$
Volume actually purged (gal.): 3 Time purging ended: \(\frac{\mathcal{Y}}{3} \)
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: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time:
QA/QC Sample: Yes No Sampling Method: Sample ID: Sample Time:
Comments/Notes/Repairs? [ed/blown of/glease observed on bailer, water is very cloudy and gley
WATER is very cloudy and gley

	Well ID: ∂ o	Date: _	8/33/3	-34	
Site Location/ Job #: $\frac{\partial}{\partial x} = \frac{\partial}{\partial x} = \frac{\partial x} = \frac{\partial}{\partial x} $	0				
Project Manager: Right N	lichaelsen				
Site Location/ Job #: Right Norksheet Completed by: Synthesis Synt	by Michaelse	,v			
Weather Conditions: 5 V M	IN WOOF				
STEP ONE: TAKE INITIAL M	EASUREMENTS a	and COMPLET	ΓE CALCU	LATIONS	
Well Diameter (in.):	_				
PID (ppm):					
Depth to Product (ft): $\frac{25.7}{}$					1
Well Depth (ft.): 33.43 -	Depth to water (ft.):	37.	= Height o	of Water Col	lumn (ft.): \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Multiply the height of the water column Well Diameter (inches) M	n by the appropriate multiplication Factor		ng to well diame iameter (inches)		ne tables below: ation Factor
1 2	0.041 0.163		8		.47 .61
3 4	0.367 0.653		10 12		.08
Volume of water in the well (gal.):	<u> ० २१३</u> x 3	S = Well vol	umes to be p	ourged (gal.)	:_0'88
STEP TWO: PURGE THE WEI			•	1 27	
Purging method:	180	Time purging	g began:	(6:61	
Volume actually purged (gal.):	2	Time purging	g ended:	((, 0 0	
Did the well purge dry?	Yes	\ /			
Was free product/sheen present in	the well? Yes	No No		Sheen \square	
Record the following parameters a	t the time of samplir				T
Temp (°C)	ρH ORP (m	(V) Cond. (n	ns/cm)	NTU	$\frac{\text{DO (mg/L)}}{\Lambda (\Lambda)}$
L A A I N	H NA	<u> </u>		MA	
STEP THREE: SAMPLE THE			^		
Sampling Method	: NA	Sample ID:	NA		Sample Time: MA
QA/QC Sample: Yes □					1.6.4
Sampling Method	: NA	Sample ID:	NA		Sample Time: NA
Comments/Notes/Renairs?	ildn't get w	oter aval	ity para	rme ters	die too on
abrolonio of oroth	vct Coily on	I black) in	the in	rell tha	+ Could damage
Comments/Notes/Repairs? Construction of provided the provided to the construction of t					, J
l I					

Well ID: _ al Date: _ o 8/21/2024
Site Location/ Job #: a o - a o o Project Manager: Rigby Michaelsen Worksheet Completed by: Rigby Michaelsen Weather Conditions: SINNY ~ 65° F
Project Manager: Rigby Michaelsen
Worksheet Completed by: Rigby Michael Ser
Weather Conditions: 511 NY ~ 65° F
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
PID (ppm): O
Depth to Product (ft):
Well Depth (ft.): $\frac{29.80}{25.55}$ - Depth to water (ft.): $\frac{25.55}{25.55}$ = Height of Water Column (ft.): $\frac{4.95}{25.55}$
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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47 2 0.163 8 2.61
3 0.367 10 4.08 4 0.653 12 5.87
Volume of water in the well (gal.): $\bigcirc \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
STEP TWO: PURGE THE WELL
Purging method: Time purging began: Volume actually purged (gal.): Time purging ended: \[\text{35} \] \[\text{35} \]
Volume actually purged (gal.): \text{Time purging ended: \text{\infty} \sqrt{\infty}
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) 2.72 7.93 -20 0.072 116 2.28
[a./2 7.93 - a0 0.67a 116 a.28
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 15 6 a ch

Well ID: 18 22 Date: 8/22/24 Site Location/ Joh #: 7011 - 206 RM 08/22/24
Site Location/ Job #: 2011 - 206
Project Manager: Righy Michaelson
Worksheet Completed by: Tobias Sissu
Weather Conditions: 60°f Junny
Weather Conditions.
STEP ONE: TAKE INITIAL MEASUREMENTS and COMPLETE CALCULATIONS
Well Diameter (in.):
DID (num):
Depth to Product (ft): 24
Well Depth (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 Well Diameter (inches) Multiplication Factor
1 0.041 6 1.47 2 0.163 8 2.61
3 0.367 10 4.08 4 0.653 12 5.87
Volume of water in the well (gal.): 0.90 $\mathbf{x}3 = $ Well volumes to be purged (gal.): 2.69
STEP TWO: PURGE THE WELL
Purging method: Time purging began:
Volume actually purged (gal.): Time purging ended:OUS
Did the well purge dry? Yes \square No \square
Was free product/sheen present in the well? Yes ☑ No ☐ Sheen ☑
Record the following parameters at the time of sampling:
STEP THREE: SAMPLE THE WELL
Sampling Method: NA Sample ID: NA Sample Time: NA
1/1
Sampling Method: NA Sample ID: NA Sample Time: NA
Comments/Notes/Repairs? Vely thick product

Monitoring Well Purging (DCN 0001-023) Unicorn Management Consultants, 52 Federal Road, Danbury, CT 06810 Page 1 of 1

DAILY SAFETY MEETING

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

		Cheektowaga, NY	
DATE:	08/20/2024		

Participants:		
Rigby Michaelben Tobias Sisco		
Tobias Sisco		
Topics:		
Slips/+rips/falls		
Vegetation		
	Stroke	

Follow-up:			
		 1-1/41-74	

DAILY SAFETY MEETING

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

Checkeo waga, 111	
DATE: 08/31/2.34	
Participants:	
Rigby Michaelsen	
Tobias 51500	
	AMARIAN MARIAN M
	4.00
Topics:	www.
Slips/trips/Falls	
Vegetation hput exhaustion / Stroke	
ticks Mosquitos Snakes/ etc.	
LICKY / WOSTALLON / DUNNEST FFC.	
Follow-up:	

DAILY SAFETY MEETING

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

DATE: <u>०१/२२/२</u> ०२५		
Participants:		
Rigby Michaelsen		
Tobias Sisco		
,		

Topics: Slips/Trips/falls Vegetation Heat exhaus fron/ Triks, Mosquitos, S	Stroke Nakes, etc.	
Follow-up:		



Period: Annual Report for 2024

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 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.

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX C QUARTERLY REPORTS



APPENDIX C

4Q23 Discharge Report

52 Federal Road, Suite 2C Danbury, CT 06810 Tele: (203) 205-9000 Fax: (203) 205-9011 www.unicornmgt.com



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 Zilagyi. 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

Responsiveness • Solutions • Quality



• 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

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



2023 Discharge Summary

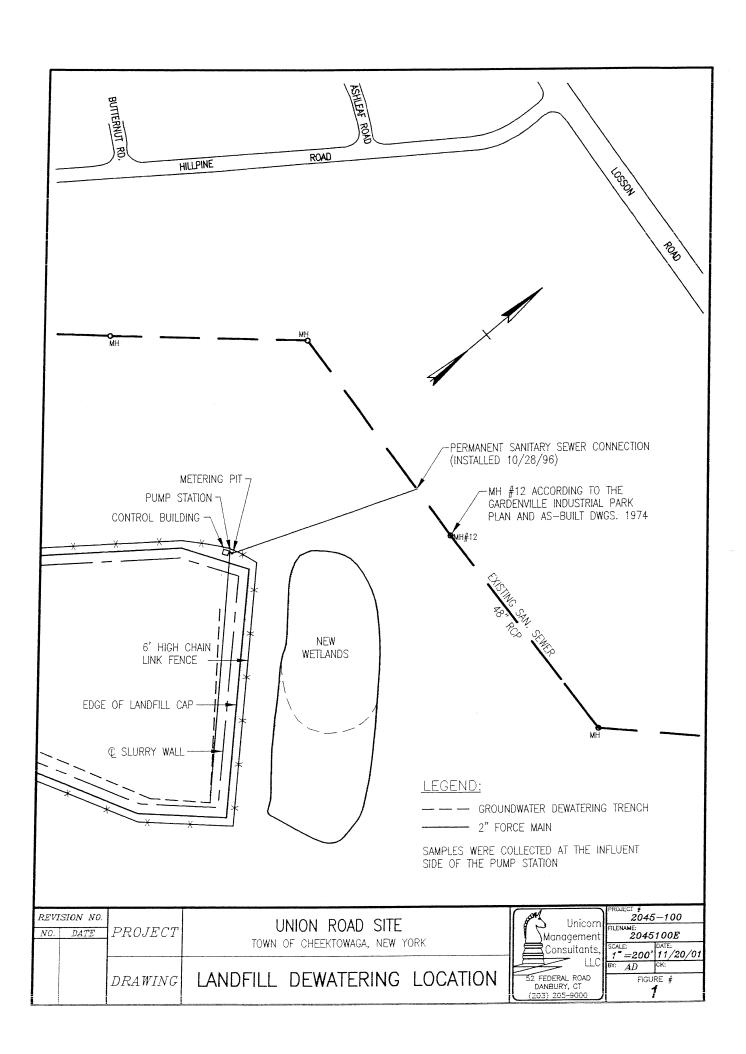
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q23	2/16/23	85,610	23,065
2Q23	5/17/23	106,499	20,899
3Q23	9/14/23	132,900	26,401
4Q23	2/13/24	165,958	33,058
,		Yearly Total Gallons	103,423



Conversion Formula

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

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





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,

Mighan Pedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Michael Ghioureliotis



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 Service Request: R2401168

Project: Union Rd Date Received: 02/13/2024

Sample Matrix: Water

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.

	Michael Pedio			
Approved by	S	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 Service Request:R2401168

Project: Union Rd/2011-200

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2401168-001
 4Q23 Effluent
 2/13/2024
 0900

	•	•																		•	
Λ		Chain of Cust	ody / Analyt	tical Reque	st Fo	rm						-	722	200)		SR#				
ALS	1565 Jefferson Road, Buildi	ng 300, Suite 36	0 ● Rochest	er, NY 1462	23 • +	·1 58	85 28	88 5	380	• al	sglo						Pag	e ,	1	of	1
-	Report To:	ALL SHADED AREAS	ENT / SAMPLER		Pi	reserv	ative						0		0	0	w	bons -			0. None
Company: U	nicorn Magement consultan	Project Name: Vn;	or Kond					CLP	رو ا				Ä	ig.	E			Hydrocar			1. HCl
Contact: R	igby michaelsen	Project Number: 3 o	1 - 100					24⊕T	• TCLP	ا بو	ł		13	Lab F	ed Solids (TSS)		'	pf			2. HNO3
Email:	ch aelsen Qunical magte com	ALS Quote #:			Gw			24•5	625	۲		۵	<u> 8</u>	Metals, Dissolved - Field / In-Lab Filter							3. H2SO4
Phone: 30	ni corn Magement consultani ig by mich aelsen ch aelsen Ounican mgto com 03-205-9000	Sampler's Signature:	Majorin		ww sw	ners			•	• 608 • TCLP		겉	ict B				918	100			4. NAOH
Address: 5	2 Federal Rd Svite ac	Email CC:	-		DW s	Containers		3260	- 8270		8	Herbicides - 8151 • TCLP	Metals, Total - Select Below Pb/A	/ed	Suspended		pheno15	Extractable			5. Zn Acet.
Da	buly (T. 06810	Email CC:			L NA				- AO	Pesticides - 8081	PCBs - 8082 • 608	- 81	tal -	loss	S	t	2	支			6. MeOH
		State Samples Collected (Circle or Write):	₩, MA, PA, CT	, Other:	7	r of	MS/MSD?	GC/MS VOA	GC/MS SVOA	des	88	des	10	ă	7		2	al E			7. NaHSO4
Lab ID	Sample Co	llection Informati	ion:		Matrix	Number	/W	/MS	/MS	ţi	3s - 8	rbici	tals	tals	Total	PH	20	40			8. Other
(ALS)	Sample ID:		Date	Time		Z	MS	ĠC,	'29	Pes	2	He	Me	Σ	P		5	10+			Notes:
	403 Effluent		9/13/94	0900	GV	5							\checkmark		V	abla	V	∇			
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Special Ins	structions / Comments:		1	Turnarou	nd Re	quire	men	ts	R	epor	t Req	uire	men	ts	Met	als: R	.CRA 84	PP 134	TAL 23	•TCLP•	Other (List)
				Rush (Sul *Subject to Ava *Please Check	rcharge:	s Apph	y)			Tier I	I/Cat /	A -Res	sults/C	2C	F	224	01	16			5

____Tier IV/Cat B - Data Standard (10 Business Days) Validation Report w/. Data Date Required: EDD Type: Ny Sdec Folme Company: Unicola Management Relinquished By: Relinquished By: Received By: Relinquished By: Received By: miller punicoungtion Signature Michaelsen Thirdzear Phone:

Page 7 of 27

Distribution: White - Lab Copy; Yellow - Return to Originator

UMC

13/34 0930

2(13)24

Printed Name

Company

Date/Time

Donbury



Cooler Receipt and Preservation



Project/Cli	ent				Folde	r Number					
Cooler receiv	ved on 2113	3/24	by:_	<u> 32</u>	<u>5</u> -	COURIER	: ALS	UPS FED	EX VELO	CITY CLIENT) _
1 Were C	ustody seals or	n outside of coole	я?		N	5a Perc	hlorate	samples have r	equired head	ispace? Y	N(NA)
2 Custody	y papers prope	rly completed (in	ık, sign	ed)?	YN	5b Did	VOA via	ıls, Alk,or Sulfi	de have sig	bubbles? Y	N NA
3 Did all b	ottles arrive in	good condition	(unbro	ken)?	YN	6 Whe	re did th	e bottles origina	ate? (ALSTROC CL	IENT
4 Circle:	Wet Ice Dry	Ice Gel packs	pre	sent?	Y)N	7 Soil	VOA rec	ceived as: F	Bulk End	core 5035set	MA
3. Temperatu	re Readings	Date 2[13]	24	Time	1123	<u>D</u>	IR#12	2 (IR#11)	From:	Temp Blank S	ample Bott
Observed T	emp (°C)	5.7			T.	 .	T				
Within 0-6°	C?	(Y)N		Y	N	Y N	Y	N Y	N	YN	YN
If<0°C, we	re samples froz	zen? Y N		Y	N	Y N	Y	N Y	N		YN
If out of	Temperature,	note packing/ic	e cond	ition:	•	Ice mei	ted P	oorly Packed (described b		Day Rule
&Client	Approval to R	tun Samples:		_ Star	nding Appi			at drop-off C		•	Day Raic
4111	hald in atoms	- 1	C 000		by (SE	الطالع	7 <u>//</u> at	1175			
	s held in storag	ge location: orage location:	SMC			<u> </u>	7 -	11 <u>7</u> 2			
July CCOC	es piaced in st	orage location.		'	by	оп	at _	within 4	48 hours of	sampling? Y	N '
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		ontainers used for					Q	ÆS NO	~		
		ls acceptable (no I metals filtered in			not leaking	g)?	-		I/A)		
		assettes / Tubes			with MS V	/N Cani	ters Pre		(/A)	s Inflated N/A	S
pН	Lot of test	Reagent	Preser		Lot Rece		Exp	Sample-ID	Vol.	Lot Added	Final
	paper		Yes	No			-	Adjusted	Added	Loi Added	рН
≥12		NaOH								· - · · · · · · · · · · · · · · · · · ·	F
≤2	213623		ļ.,	/	none		_	00/	O. Sinc	B28B60	22
≤2	213623	H₂SO₄	/	<u> </u>	2220	0059	5/25				
<4	ļ	NaHSO ₄	├──	<u> </u>	27 27 6				<u> </u>		
5-9 Residual	 	For 608pest	 	├		fy for 3day act PM to add			ļ <u>.</u>		
Chlorine		For CN, Phenol 625,	./	ŀ	Na ₂ S ₂ O ₃ (1				.
(-)	İ	608pest, 522	-			rbic (phenol).					
	1	Na ₂ S ₂ O ₃	7.00	-			1		 		
		ZnAcetate		-				**VOAs and 160	4 Not to be te	sted before analysis.	
		HCI	**	**				Otherwise, all bo are checked (not	tties of all san	iples with chemical pr	eservatives
		L					1,	ar careacting	Just represent	itt vcs).	
Dattle lat				_							
Dome lot	numbers:/	100322-1EI	KP.	02	263-6	LERD. C)509 <i>1</i>	2-2FF	2. no i	nt inm	
	numbers:/ Il Discrepanci	00322 - [E] es/ Other Comm	ents:	02	263-6	ERD, C	5092	2-2EFC	2, no l	ol info	
	numbers:/ ll Discrepancio	00322 - [E] es/ Other Comm	ents:	02	1223-2	CERD, C)5092	<u>2-2EFC</u>	2, no l	ot info	
	numbers: / Il Discrepancio	00322 - [E] es/ Other Comm	ents:	02	1 <u>363-6</u>	ERD, C	<u>)5092</u>	2-2EF0	?, no.	ol: info	

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels second	dary reviewed by:_	R R
P.C. Secondary	v.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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

P:\INTRANET\QAQC\Forms Controlled\QUALIF routine rev 7.doc

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



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

Client: Unicorn Management Consultants Service Request: R2401168

Project: Union Rd/2011-200

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	рН

ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants Service Request: R2401168

Project: Union Rd/2011-200

 Sample Name:
 4Q23 Effluent
 Date Collected: 02/13/24

 Lab Code:
 R2401168-001
 Date Received: 02/13/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 BBOWE

6010C ECASTROVINCI MMCMAHON

SM 2540 D-2015 HCASTROVINCI

SM 4500-H+ B 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)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	
For analytical methods not listed, method is the same as the analytic reference.	



Sample Results

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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

Service Request: R2401168 **Date Collected:** 02/13/24 09:00 **Project:** Union Rd/2011-200

Date Received: 02/13/24 11:20 **Sample Matrix:** Water

Sample Name: 4Q23 Effluent Basis: NA

Lab Code: R2401168-001

Inorganic Parameters

Analysis

Analyte Name	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

Service Request: R2401168 Union Rd/2011-200 **Date Collected:** 02/13/24 09:00 **Project:**

Date Received: 02/13/24 11:20 **Sample Matrix:** Water

Sample Name: 4Q23 Effluent Basis: NA

Lab Code: R2401168-001

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	
pН	SM 4500-H+ B	6.95	pH Units	-	1	02/14/24 13:00	Н
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 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

Service Request: R2401168 Date Collected: NA Union Rd/2011-200

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2401168-MB

Inorganic Parameters

Analysis

Analyte Name	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

Service Request: R2401168 Union Rd/2011-200 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2401168-MB

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 Date Analyzed: 02/20/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2401168

Lab Control Sample

Duplicate Lab Control Sample

R2401168-LCS1

R2401168-DLCS1

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



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		Metals I	
Coliform, Total / E. coli (Qualitative)	SM 20, 21-23 9223B (-04) (Colilert)	Manganese, Total	EPA 200.8 Rev. 5.4
Disinfection By-products		Mercury, Total	EPA 245.1 Rev. 3.0
Bromide Bromide	EPA 300.0 Rev. 2.1	Selenium, Total	EPA 200.8 Rev. 5.4
	LI A 300.0 Nev. 2.4	Silver, Total	EPA 200.7 Rev. 4.4
Dissolved Gases			EPA 200.8 Rev. 5.4
Acetylene	RSK-175	Zinc, Total	EPA 200.7 Rev. 4.4
Ethane	RSK-175		EPA 200.8 Rev. 5.4
Ethene (Ethylene)	RSK-175	95-4-1- 11	
Methane	RSK-175	Metals II	
Propane	RSK-175	Aluminum, Total	EPA 200.7 Rev. 4.4
Fuel Additives		Antimony, Total	EPA 200.8 Rev. 5.4
	화 경에 없이 없이 그는 그는 전혀 모습니다.	Beryllium, Total	EPA 200.7 Rev. 4.4
Methyl tert-butyl ether	EPA 524.2		EPA 200.8 Rev. 5.4
Naphthalene	EPA 524.2	Molybdenum, Total	EPA 200.7 Rev. 4.4
Metals I			EPA 200.8 Rev. 5.4
Arsenic, Total	EPA 200.8 Rev. 5.4	Nickel, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.8 Rev. 5.4	Thallium, Total	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.8 Rev. 5.4	Vanadium, Total	EPA 200.7 Rev. 4.4
Chromium, Total	EPA 200.7 Rev. 4.4	Metals III	
	EPA 200.8 Rev. 5.4	Boron, Total	EPA 200.7 Rev. 4.4
Copper, Total	EPA 200.7 Rev. 4.4	Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4	Magnesium, Total	EPA 200.7 Rev. 4.4
Iron, Total	EPA 200.7 Rev. 4.4	Potassium, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4	Sodium, Total	EPA 200.7 Rev. 4.4
Manganese, Total	EPA 200.7 Rev. 4.4	(4.2)	

Serial No.: 64293





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Miscellaneous		Trihalomethanes	
1,4-Dioxane	EPA 522	Chloroform	EPA 524.2
Organic Carbon, Dissolved	SM 21-23 5310C (-00)	Dibromochloromethane	EPA 524.2
Organic Carbon, Total	SM 21-23 5310B (-00)	Total Trihalomethanes	EPA 524.2
Turbidity UV 254	SM 21-23 5310C (-00) EPA 180.1 Rev. 2.0 SM 21-23 5910B (-00,-11)	Volatile Aromatics 1,2,3-Trichlorobenzene	EPA 524.2
Non-Metals	SIM 21-23 3310B (-00;-11)	1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	EPA 524.2 EPA 524.2
Alkalinity	SM 21-23 2320B (-97)	1,2-Dichlorobenzene	EPA 524.2
Calcium Hardness	SM 18-22 2340B (-97)	1,3,5-Trimethylbenzene	EPA 524.2
Chloride	EPA 300.0 Rev. 2.1	1,3-Dichlorobenzene	EPA 524.2
Color	SM 21-23 2120B (-01)	1,4-Dichlorobenzene	EPA 524.2
Corrosivity	SM 18-22 2330	2-Chlorotoluene	EPA 524.2
Cyanide	Kelada 01, Rev. 1.2	4-Chlorotoluene	EPA 524.2
	EPA 335.4 Rev. 1.0	Benzene	EPA 524.2
Fluoride, Total	EPA 300.0 Rev. 2.1	Bromobenzene	EPA 524.2
Nitrate (as N)	EPA 353.2 Rev. 2.0	Chlorobenzene	EPA 524.2
Nitrite (as N)	EPA 353.2 Rev. 2.0	Ethyl benzene	EPA 524.2
Orthophosphate (as P)	EPA 365.1 Rev. 2.0	Hexachlorobutadiene	EPA 524.2
Solids, Total Dissolved	SM 21-23 2540C (-97)	Isopropylbenzene	EPA 524.2
Specific Conductance	EPA 120.1 Rev. 1982	n-Butylbenzene	EPA 524.2
Sulfate (as SO4)	EPA 300.0 Rev. 2.1	n-Propylbenzene	EPA 524.2
Trihalomethanes		p-Isopropyltoluene (P-Cymene)	EPA 524.2
Bromodichloromethane	EPA 524.2	sec-Butylbenzene	EPA 524.2
Bromoform	EPA 524.2	Styrene	EPA 524.2

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NY Lab Id No: 10145

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All approved analytes are listed below:

Volatile Aromatics		Volatile Halocarbons	
tert-Butylbenzene	EPA 524.2	Dichlorodifluoromethane	EPA 524.2
Toluene	EPA 524.2	Methylene chloride	EPA 524.2
Total Xylenes	EPA 524.2	Tetrachloroethene	EPA 524.2
Volatile Halocarbons		trans-1,2-Dichloroethene	EPA 524.2
1,1,1,2-Tetrachloroethane	© EPA 524.2	trans-1,3-Dichloropropene	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2	Trichloroethene	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2	Trichlorofluoromethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2	Vinyl chloride	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		

Serial No.: 64293





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

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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:

Acrylates		Amines	
Acrolein (Propenal)	EPA 8260C	Pronamide	EPA 8270D
	EPA 624.1	Propionitrile	EPA 8260C
Acrylonitrile	EPA 8260C	Pyridine	EPA 625.1
	EPA 624.1		EPA 8270D
Ethyl methacrylate	EPA 8260C	Benzidines	
Methyl acrylonitrile	EPA 8260C	3,3'-Dichlorobenzidine	EPA 625.1
Methyl methacrylate	EPA 8260C		EPA 8270D
Amines		3,3'-Dimethylbenzidine	EPA 8270D
1,2-Diphenylhydrazine	EPA 625.1	Benzidine	EPA 625.1
	EPA 8270D		EPA 8270D
1,4-Phenylenediamine	EPA 8270D	Chlorinated Hydrocarbon Pestic	ides
1-Naphthylamine	EPA 8270D	4,4'-DDD	EPA 8081B
2-Naphthylamine	EPA 8270D	생생 - 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EPA 608.3
2-Nitroaniline	EPA 8270D	4,4'-DDE	EPA 8081B
3-Nitroaniline	EPA 8270D		EPA 608.3
4-Chloroaniline	EPA 8270D	100-40 4,4'-DDT	EPA 8081B
4-Nitroaniline	EPA 8270D		EPA 608.3
5-Nitro-o-toluidine	EPA 8270D	Aldrin	EPA 8081B
Aniline	EPA 625.1		EPA 608.3
	EPA 8270D	alpha-BHC	EPA 8081B
Carbazole	EPA 625.1		EPA 608.3
	EPA 8270D	alpha-Chlordane	EPA 8081B
Diphenylamine	EPA 8270D		EPA 608.3
Methapyrilene	EPA 8270D	beta-BHC	EPA 8081B

Serial No.: 64294





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

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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 NON POTABLE WATER
All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides		Chlorinated Hydrocarbon Pesticide	s The State of the
beta-BHC	EPA 608.3	Heptachlor epoxide	EPA 8081B
Chlordane Total	EPA 8081B		EPA 608.3
	EPA 608.3	Isodrin	EPA 8270D
Chlorobenzilate	EPA 8270D	Kepone	EPA 8270D
delta-BHC	EPA 8081B	Lindane	EPA 8081B
	EPA 608.3		EPA 608.3
Diallate	EPA 8270D	Methoxychlor	EPA 8081B
Dieldrin	EPA 8081B		EPA 608.3
	EPA 608.3	Mirex	EPA 8081B
Endosulfan I	EPA 8081B	PCNB	EPA 8270D
	EPA 608.3	Toxaphene	EPA 8081B
Endosulfan II	EPA 8081B		EPA 608.3
	EPA 608.3	Chlorinated Hydrocarbons	
Endosulfan sulfate	EPA 8081B	1,2,3-Trichlorobenzene	EPA 8260C
	EPA 608.3	1,2,4,5-Tetrachlorobenzene	EPA 8270D
Endrin	EPA 8081B	1,2,4-Trichlorobenzene	EPA 625.1
	EPA 608.3		EPA 8270D
Endrin aldehyde	EPA 8081B	2-Chloronaphthalene	EPA 625.1
	EPA 608.3		EPA 8270D
Endrin Ketone	EPA 8081B	Hexachlorobenzene	EPA 625.1
gamma-Chlordane	EPA 8081B		EPA 8270D
	EPA 608.3	Hexachlorobutadiene	EPA 625.1
Heptachlor	EPA 8081B		EPA 8270D
	EPA 608.3	Hexachlorocyclopentadiene	EPA 625.1

Serial No.: 64294





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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 NON POTABLE WATER
All approved analytes are listed below:

Chlorinated Hydrocarbons		Fuel Oxygenates	
Hexachlorocyclopentadiene	EPA 8270D	Di-isopropyl ether	EPA 8260C
Hexachloroethane	EPA 625.1		EPA 8015C
	EPA 8270D	Ethanol	EPA 8015C
Hexachloropropene	EPA 8270D	Methyl tert-butyl ether	EPA 8260C
Pentachlorobenzene	EPA 8270D		EPA 624.1
Chlorophenoxy Acid Pesticides		tert-amyl methyl ether (TAME)	EPA 8260C
2,4,5-T	EPA 8151A	tert-butyl alcohol	EPA 8260C
2,4,5-TP (Silvex)	EPA 8151A		EPA 624.1
2,4-D	EPA 8151A	tert-butyl ethyl ether (ETBE)	EPA 8260C
Dicamba	EPA 8151A	Haloethers	
Dinoseb	EPA 8151A	2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D		EPA 8270D
Pentachlorophenol	EPA 8151A	4-Bromophenylphenyl ether	EPA 625.1
Demand			EPA 8270D
Biochemical Oxygen Demand	SM 5210B-2016	4-Chlorophenylphenyl ether	EPA 625.1
Carbonaceous BOD	SM 5210B-2016		EPA 8270D
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)	Bis(2-chloroethoxy)methane	EPA 625.1
			EPA 8270D
Dissolved Gases		Bis(2-chloroethyl)ether	EPA 625.1
Acetylene	RSK-175		EPA 8270D
Ethane	RSK-175		
Ethene (Ethylene)	RSK-175	Low Level Polynuclear Aromatics	
Methane	RSK-175	Acenaphthene Low Level	EPA 610
Propane	RSK-175		EPA 8270D
		Acenaphthylene Low Level	EPA 610

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Low Level Polynuclear Aromatics		Low Level Polynuclear Aromatics	
Acenaphthylene Low Level	EPA 8270D	Phenanthrene Low Level	EPA 8270D
Anthracene Low Level	EPA 610	Pyrene Low Level	EPA 610
	EPA 8270D		EPA 8270D
Benzo(a)anthracene Low Level	EPA 610	Metals I	
	EPA 8270D	Barium, Total	EPA 200.7, Rev. 4.4 (1994)
Benzo(a)pyrene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Benzo(b)fluoranthene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
Benzo(g,h,i)perylene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Benzo(k)fluoranthene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
Chrysene Low Level	EPA 8270D		EPA 6010C
Dibenzo(a,h)anthracene Low Level	EPA 8270D	Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
Fluoranthene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Fluorene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Copper, Total	EPA 200.7, Rev. 4.4 (1994)
Indeno(1,2,3-cd)pyrene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Naphthalene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Iron, Total	EPA 200.7, Rev. 4.4 (1994)
Phenanthrene Low Level	EPA 610		EPA 6010C

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Metals I		Metals II	
Lead, Total	EPA 200.7, Rev. 4.4 (1994)	Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C		EPA 6010C
	EPA 6020A		EPA 200.8, Rev. 5.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)	Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010C
	EPA 6010C		EPA 6020A
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010C	Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020A		EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)		EPA 6020A
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010C	Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020A		EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)		EPA 6020A
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010C	Chromium VI	EPA 218.6, Rev. 3.3 (1994)
Silver, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 7196A
	EPA 6010C		EPA 7199
	EPA 6020A		SM 3500-Cr B-2011
	EPA 200.8, Rev. 5.4 (1994)	Mercury, Low Level	EPA 1631E
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)	Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 6010C		EPA 7470A
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)	Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C		EPA 6010C

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Metals II		Metals III	
Selenium, Total	EPA 6020A	Tin, Total	EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)	Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010C
	EPA 6010C	Uranium (Mass)	EPA 6020A
	EPA 6020A	Mineral	
	EPA 200.8, Rev. 5.4 (1994)	Alkalinity	SM 2320B-2011
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)	Calcium Hardness	SM 2340B-2011
	EPA 6010C	Chloride	EPA 300.0, Rev. 2.1 (1993)
	EPA 6020A		EPA 9056A
	EPA 200.8, Rev. 5.4 (1994)	Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)
Metals III			EPA 9056A
Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)	Hardness, Total	SM 2340C-2011
	EPA 6010C		SM 2340B-2011
	EPA 6020A	Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)
	EPA 200.8, Rev. 5.4 (1994)		EPA 9056A
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)	Miscellaneous	
	EPA 6010C	Boron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020A		EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)	Bromide	EPA 300.0, Rev. 2.1 (1993)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 9056A
	EPA 6010C	Color	SM 2120B-2011
	EPA 6020A	Corrosivity	SM 2330-2016
	EPA 200.8, Rev. 5.4 (1994)	Cyanide, Available	SM 4500-CN G-2016
Tin, Total	EPA 200.7, Rev. 4.4 (1994)	Cyanide, Total	Kelada-01

Serial No.: 64294





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Miscellaneous		Nitroaromatics and Isophorone	
Cyanide, Total	SM 4500-CN E-2016	Isophorone	EPA 625.1
	EPA 335.4, Rev. 1.0 (1993)		EPA 8270D
	EPA 9012B	Nitrobenzene	EPA 625.1
Formaldehyde	EPA 8315A		EPA 8270D
non-Polar Extractable Material (TPH)	EPA 1664B	Nitrosoamines	
Oil and Grease Total Recoverable	EPA 1664B	N-Nitrosodiethylamine	EPA 8270D
Organic Carbon, Total	SM 5310B-2011	N-Nitrosodimethylamine	EPA 625.1
	SM 5310C-2011	in the second	EPA 8270D
	EPA 9060A	N-Nitrosodi-n-butylamine	EPA 8270D
Phenols	EPA 420.4, Rev. 1.0 (1993)	N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 9066		EPA 8270D
Specific Conductance	EPA 120.1 (Rev. 1982)	N-Nitrosodiphenylamine	EPA 625.1
Sulfide (as S)	SM 4500-S2- F-2011		EPA 8270D
	EPA 9034	N-nitrosomethylethylamine	EPA 8270D
Turbidity	EPA 180.1, Rev. 2.0 (1993)	N-nitrosomorpholine	EPA 8270D
Nitroaromatics and Isophorone		N-nitrosopiperidine	EPA 8270D
1,3,5-Trinitrobenzene	EPA 8270D	N-Nitrosopyrrolidine	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D	Nutrient	
1,4-Naphthoquinone	EPA 8270D	Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
2,4-Dinitrotoluene	EPA 625.1	Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
	EPA 8270D	Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
2,6-Dinitrotoluene	EPA 625.1		EPA 300.0, Rev. 2.1 (1993)
	EPA 8270D		EPA 9056A
4-Nitroquinoline-1-oxide	EPA 8270D	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
Atrazine	EPA 8270D		EPA 8270D
Dimethoate	EPA 8270D	Polychlorinated Biphenyls	
Disulfoton	EPA 8270D	Aroclor 1016 (PCB-1016)	EPA 8082A
Famphur	EPA 8270D		EPA 608.3
Parathion ethyl	EPA 8270D	Aroclor 1221 (PCB-1221)	EPA 8082A
Parathion methyl	EPA 8270D		EPA 608.3
Phorate	EPA 8270D	Aroclor 1232 (PCB-1232)	EPA 8082A
Sulfotepp	EPA 8270D		EPA 608.3
Thionazin	EPA 8270D	Aroclor 1242 (PCB-1242)	EPA 8082A
Petroleum Hydrocarbons			EPA 608.3
Diesel Range Organics	EPA 8015C	Aroclor 1248 (PCB-1248)	EPA 8082A
경기 가는 것으로 들어 가장 되다는 것이 그렇게 그			EPA 608.3
Phthalate Esters	(2015년 - 1915년 - 1915년 1일 (1915년 - 1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 - 1915년 - 1915년 - 1915년 - 1915년 1일 (1915년 1일 (1915	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	역회통하실하는 역정하는 1987년 - 1987년	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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		교장 그리는 그 경상이 그 그 주었는데 그림과 말이 되었다.	
Polynuclear Aromatics		Polynuclear Aromatics	
2-Acetylaminofluorene	EPA 8270D	Fluoranthene	EPA 8270D
3-Methylcholanthrene	EPA 8270D	Fluorene	EPA 625.1
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D		EPA 8270D
Acenaphthene	EPA 625.1	Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D		EPA 8270D
Acenaphthylene	EPA 625.1	Naphthalene	EPA 625.1
	EPA 8270D		EPA 8270D
Anthracene	EPA 625.1	Phenanthrene	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(a)anthracene	EPA 625.1	Pyrene	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(a)pyrene	EPA 625.1	Priority Pollutant Phenols	
	EPA 8270D	2,3,4,6 Tetrachlorophenol	EPA 8270D
Benzo(b)fluoranthene	EPA 625.1	2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1	2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(k)fluoranthene	EPA 625.1	2,4-Dichlorophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Chrysene	EPA 625.1	2,4-Dimethylphenol	EPA 625.1
	EPA 8270D		EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1	2,4-Dinitrophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Fluoranthene	EPA 625.1	2.6-Dichlorophenol	EPA 8270D

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Priority Pollutant Phenols		Residue	
2-Chlorophenol	EPA 625.1	Solids, Total Dissolved	SM 2540 C-2015
	EPA 8270D	Solids, Total Suspended	SM 2540 D-2015
2-Methyl-4,6-dinitrophenol	EPA 625.1	Solids, Volatile	SM 2540 E-2015
	EPA 8270D	Semi-Volatile Organics	
2-Methylphenol	EPA 625.1	1,1'-Biphenyl	EPA 8270D
	EPA 8270D	1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Nitrophenol	EPA 625.1	1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270D	1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
3-Methylphenol	EPA 625.1	2-Methylnaphthalene	EPA 625.1
	EPA 8270D		EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1	2-Picoline	EPA 8270D
	EPA 8270D	4-Amino biphenyl	EPA 8270D
4-Methylphenol	EPA 625.1	Acetophenone	EPA 625.1
	EPA 8270D		EPA 8270D
4-Nitrophenol	EPA 625.1	alpha-Terpineol	EPA 625.1
	EPA 8270D	Aramite	EPA 8270D
Cresols, Total	EPA 8270D	Benzaldehyde	EPA 8270D
Pentachlorophenol	EPA 625.1	Benzoic Acid	EPA 8270D
	EPA 8270D	Benzyl alcohol	EPA 8270D
Phenol	EPA 625.1	Caprolactam	EPA 8270D
	EPA 8270D	Dibenzofuran	EPA 8270D
Residue		Ethyl methanesulfonate	EPA 8270D
Settleable Solids	SM 2540 F-2015	Isosafrole	EPA 8270D
Solids, Total	SM 2540 B-2015	Methyl methanesulfonate	EPA 8270D

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Semi-Volatile Organics		Volatile Aromatics	
O,O,O-Triethyl phosphorothioate	EPA 8270D	m/p-Xylenes	EPA 8260C
p-Dimethylaminoazobenzene	EPA 8270D		EPA 624.1
Phenacetin	EPA 8270D	Naphthalene, Volatile	EPA 8260C
Safrole	EPA 8270D		EPA 624.1
Volatile Aromatics		n-Butylbenzene	EPA 8260C
1,2,4-Trichlorobenzene, Volatile	EPA 8260C	n-Propylbenzene	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C	o-Xylene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C		EPA 624.1
	EPA 624.1	p-Isopropyltoluene (P-Cymene)	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C	sec-Butylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C	Styrene	EPA 8260C
	EPA 624.1		EPA 624.1
1,4-Dichlorobenzene	EPA 8260C	tert-Butylbenzene	EPA 8260C
	EPA 624.1	Toluene	EPA 8260C
2-Chlorotoluene	EPA 8260C		EPA 624.1
4-Chlorotoluene	EPA 8260C	Total Xylenes	EPA 8260C
Benzene	EPA 8260C		EPA 624.1
	EPA 624.1	Volatile Halocarbons	
Bromobenzene	EPA 8260C	1,1,1,2-Tetrachloroethane	EPA 8260C
Chlorobenzene	EPA 8260C	1,1,1-Trichloroethane	EPA 8260C
	EPA 624.1	레스티스 보다 원인스 생각한 기속 당황한	EPA 624.1
Ethyl benzene	EPA 8260C	1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624.1		EPA 624.1
Isopropylbenzene	EPA 8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C

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

Serial No.: 64294





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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		Volatiles Organics	
Methylene chloride	EPA 8260C	Acetone	EPA 8260C
	EPA 624.1	보면	EPA 624.1
Tetrachloroethene	EPA 8260C	Acetonitrile	EPA 8260C
	EPA 624.1		EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C	Carbon Disulfide	EPA 8260C
	EPA 624.1	Cyclohexane	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C	Di-ethyl ether	EPA 8260C
	EPA 624.1	Ethyl Acetate	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C		EPA 8015C
Trichloroethene	EPA 8260C	Ethylene Glycol	EPA 8015C
	EPA 624.1	Isobutyl alcohol	EPA 8260C
Trichlorofluoromethane	EPA 8260C		EPA 8015C
	EPA 624.1	Isopropanol	EPA 8260C
Vinyl chloride	EPA 8260C	Methanol	EPA 8015C
	EPA 624.1	Methyl acetate	EPA 8260C
Volatiles Organics		Methyl cyclohexane	EPA 8260C
1,4-Dioxane	EPA 8260C	n-Butanol	EPA 8260C
	EPA 8270D	o-Toluidine	EPA 8270D
	EPA 8270D SIM	Propylene Glycol	EPA 8015C
2-Butanone (Methylethyl ketone)	EPA 8260C	Tetrahydrofuran	EPA 8260C
2-Hexanone	EPA 8260C		EPA 624.1
2-Nitropropane	EPA 8260C	Vinyl acetate	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C		EPA 624.1
	EPA 624.1		

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All approved analytes are listed below:

Sample Preparation Methods

EPA 5030C

EPA 200.2

EPA 9030B

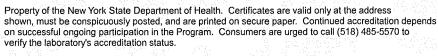
EPA 3010A

EPA 3005A

EPA 3510C

EPA 3535A

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All approved analytes are listed below:

Acrylates		Characteristic Testing	
Acrolein (Propenal)	EPA 8260C	Corrosivity (pH)	EPA 9040C
Acrylonitrile	EPA 8260C		EPA 9045D
Ethyl methacrylate	EPA 8260C	Free Liquids	EPA 9095B
Methyl acrylonitrile	EPA 8260C	Synthetic Precipitation Leaching Proc	c. EPA 1312
Methyl methacrylate	EPA 8260C	TCLP	EPA 1311
Amines		Chlorinated Hydrocarbon Pesticides	
1,2-Diphenylhydrazine	EPA 8270D	4,4'-DDD	EPA 8081B
1,4-Phenylenediamine	EPA 8270D	4,4'-DDE	EPA 8081B
1-Naphthylamine	EPA 8270D	4,4'-DDT	EPA 8081B
2-Naphthylamine	EPA 8270D	Aldrin	EPA 8081B
2-Nitroaniline	EPA 8270D	alpha-BHC	EPA 8081B
3-Nitroaniline	EPA 8270D	alpha-Chlordane	EPA 8081B
4-Chloroaniline	EPA 8270D	Atrazine	EPA 8270D
4-Nitroaniline	EPA 8270D	beta-BHC	EPA 8081B
5-Nitro-o-toluidine	EPA 8270D	Chlordane Total	EPA 8081B
Aniline	EPA 8270D	Chlorobenzilate	EPA 8270D
Carbazole	EPA 8270D	delta-BHC	EPA 8081B
Diphenylamine	EPA 8270D	Diallate	EPA 8270D
Methapyrilene	EPA 8270D	Dieldrin	EPA 8081B
Pronamide	EPA 8270D	Endosulfan I	EPA 8081B
Benzidines		Endosulfan II	EPA 8081B
3,3'-Dichlorobenzidine	EPA 8270D	Endosulfan sulfate	EPA 8081B
3,3'-Dimethylbenzidine	EPA 8270D	Endrin	EPA 8081B
Benzidine	EPA 8270D	Endrin aldehyde	EPA 8081B

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides		Chlorophenoxy Acid Pesticides	
Endrin Ketone	EPA 8081B	2,4,5-TP (Silvex) E	PA 8151A
gamma-Chlordane	EPA 8081B	2,4-D E	PA 8151A
Heptachlor	EPA 8081B	Dicamba	PA 8151A
Heptachlor epoxide	EPA 8081B	Dinoseb	PA 8270D
Isodrin	EPA 8270D	Pentachlorophenol E	PA 8151A
Kepone	EPA 8270D	Haloethers	
Lindane	EPA 8081B	2,2'-Oxybis(1-chloropropane) E	PA 8270D
Methoxychlor	EPA 8081B		PA 8270D
Pentachloronitrobenzene	EPA 8270D		PA 8270D
Toxaphene	EPA 8081B	마르막 경송 송하 경제 :	PA 8270D
Chlorinated Hydrocarbons		Bis(2-chloroethyl)ether E	PA 8270D
1,2,3-Trichlorobenzene	EPA 8260C	Low Level Polynuclear Aromatic Hydrocarb	oons
1,2,4,5-Tetrachlorobenzene	EPA 8270D		PA 8270D
1,2,4-Trichlorobenzene	EPA 8270D	아이 하게 되는 것이 되었다. 그는 그는 그들은 그들에게 그렇게 되었다면 하는 것이 되었다. 그는 그들은	PA 8270D
1-Chloronaphthalene	EPA 8270D	강이 그는 사람들은 사람들이 되었다면 하는데 가장 나를 다 되었다.	PA 8270D
2-Chloronaphthalene	EPA 8270D		PA 8270D
Hexachlorobenzene	EPA 8270D	그렇게 그 이렇게 하는 그리는 이 이렇게 살아 가장 이 얼마나 이 나는 것이다.	PA 8270D
Hexachlorobutadiene	EPA 8270D	마음이 회교는 그 마음이 되는 날아야 들어서 이렇지 않을 때문에 걸는 스러달 함	PA 8270D
Hexachlorocyclopentadiene	EPA 8270D		PA 8270D
Hexachloroethane	EPA 8270D	회 등에 가는 그는 그는 맛있었습니까? 그렇게 하지 않는 그렇게 밝혀졌다.	PA 8270D
Hexachloropropene	EPA 8270D	그 요요 그는 사람들은 사람들이 살아보는 사람들이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	PA 8270D
Pentachlorobenzene	EPA 8270D	회사는 사람은 학문 및 동물과 그렇게 하는 회 회	PA 8270D
Chlorophenoxy Acid Pesticides		그는 그 그는 그는 그 그 그 그 그 그 그 사람들이 없는 그를 받았다는 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	PA 8270D
2,4,5-T	EPA 8151A	Fluorene Low Level E	PA 8270D

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Low Level Polynuclear Aromatic Hyd	lrocarbons	Metals I	
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D	Silver, Total	EPA 6020A
Naphthalene Low Level	EPA 8270D	Sodium, Total	EPA 6010C
Phenanthrene Low Level	EPA 8270D	Strontium, Total	EPA 6010C
Pyrene Low Level	EPA 8270D	Metals II	
Metals I		Aluminum, Total	EPA 6010C
Barium, Total	EPA 6010C	Antimony, Total	EPA 6010C
	EPA 6020A		EPA 6020A
Cadmium, Total	EPA 6010C	Arsenic, Total	EPA 6010C
	EPA 6020A		EPA 6020A
Calcium, Total	EPA 6010C	Beryllium, Total	EPA 6010C
Chromium, Total	EPA 6010C		EPA 6020A
	EPA 6020A	Chromium VI	EPA 7199
Copper, Total	EPA 6010C	Lithium, Total	EPA 6010C
	EPA 6020A	Mercury, Total	EPA 7471B
Iron, Total	EPA 6010C	Selenium, Total	EPA 6010C
Lead, Total	EPA 6010C		EPA 6020A
	EPA 6020A	Vanadium, Total	EPA 6010C
Magnesium, Total	EPA 6010C		EPA 6020A
Manganese, Total	EPA 6010C	Zinc, Total	EPA 6010C
	EPA 6020A		EPA 6020A
Nickel, Total	EPA 6010C	Metals III	
	EPA 6020A	Cobalt, Total	EPA 6010C
Potassium, Total	EPA 6010C		EPA 6020A
Silver, Total	EPA 6010C	Molybdenum, Total	EPA 6010C

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Metals III		Nitroaromatics and Isophorone	
Molybdenum, Total	EPA 6020A	4-Dimethylaminoazobenzene	EPA 8270D
Silica, Dissolved	EPA 6010C	4-Nitroquinoline-1-oxide	EPA 8270D
Thallium, Total	EPA 6010C	Isophorone	EPA 8270D
	EPA 6020A	Nitrobenzene	EPA 8270D
Tin, Total	EPA 6010C	Pyridine	EPA 8270D
Titanium, Total	EPA 6010C	Nitrosoamines	
Minerals		N-Nitrosodiethylamine	EPA 8270D
Bromide	EPA 9056A	N-Nitrosodimethylamine	EPA 8270D
Chloride	EPA 9056A	N-Nitrosodi-n-butylamine	EPA 8270D
Fluoride, Total	EPA 9056A	N-Nitrosodi-n-propylamine	EPA 8270D
Sulfate (as SO4)	EPA 9056A	N-Nitrosodiphenylamine	EPA 8270D
Miscellaneous		N-nitrosomethylethylamine	EPA 8270D
Boron, Total	EPA 6010C	N-nitrosomorpholine	EPA 8270D
Cyanide, Total	EPA 9012B	N-nitrosopiperidine	EPA 8270D
Organic Carbon, Total	Lloyd Kahn Method	N-Nitrosopyrrolidine	EPA 8270D
Phenols	EPA 9066	Nutrients	
Sulfide (as S)	EPA 9034	Nitrate (as N)	EPA 9056A
Nitroaromatics and Isophorone		Nitrite (as N)	EPA 9056A
1,3,5-Trinitrobenzene	EPA 8270D	Organophosphate Pesticides	
1,3-Dinitrobenzene	EPA 8270D	Dimethoate	EPA 8270D
1,4-Naphthoquinone	EPA 8270D	Disulfoton	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D	Famphur	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D	Parathion ethyl	EPA 8270D

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Organophosphate Pesticides		Polychlorinated Biphenyls	
Parathion methyl	EPA 8270D	Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Phorate	EPA 8270D	Aroclor 1254 (PCB-1254)	EPA 8082A
Sulfotepp	EPA 8270D	Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Thionazin	EPA 8270D	Aroclor 1260 (PCB-1260)	EPA 8082A
Petroleum Hydrocarbons		Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Diesel Range Organics	EPA 8015C	Aroclor 1262 (PCB-1262)	EPA 8082A
		Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Phthalate Esters		Aroclor 1268 (PCB-1268)	EPA 8082A
Benzyl butyl phthalate	EPA 8270D	Aroclor 1268 (PCB-1268) in Oil	EPA 8082A
Bis(2-ethylhexyl) phthalate	EPA 8270D	Polynuclear Aromatic Hydrocarbons	
Diethyl phthalate	EPA 8270D	2-Acetylaminofluorene	EPA 8270D
Dimethyl phthalate	EPA 8270D	[발발]	EPA 8270D
Di-n-butyl phthalate	EPA 8270D	3-Methylcholanthrene	
Di-n-octyl phthalate	EPA 8270D	7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Polychlorinated Biphenyls		Acenaphthene	EPA 8270D
Aroclor 1016 (PCB-1016)	EPA 8082A	Acenaphthylene	EPA 8270D
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A	Anthracene	EPA 8270D
		Benzo(a)anthracene	EPA 8270D
Aroclor 1221 (PCB-1221)	EPA 8082A	Benzo(a)pyrene	EPA 8270D
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A	Benzo(b)fluoranthene	EPA 8270D
Aroclor 1232 (PCB-1232)	EPA 8082A	Benzo(g,h,i)perylene	EPA 8270D
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A	Benzo(k)fluoranthene	EPA 8270D
Aroclor 1242 (PCB-1242)	EPA 8082A	Chrysene	EPA 8270D
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A	Dibenzo(a,h)anthracene	EPA 8270D
Aroclor 1248 (PCB-1248)	EPA 8082A	Fluoranthene	EPA 8270D
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Polynuclear Aromatic Hydrocarbons		Semi-Volatile Organics	
Fluorene	EPA 8270D	1,1'-Biphenyl	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D	1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
Naphthalene	EPA 8270D	1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
Phenanthrene	EPA 8270D	1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
Pyrene	EPA 8270D	2-Methylnaphthalene	EPA 8270D
Priority Pollutant Phenols		2-Picoline	EPA 8270D
2,3,4,6 Tetrachlorophenol	EPA 8270D	4-Amino biphenyl	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D	Acetophenone	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D	Aramite	EPA 8270D
2,4-Dichlorophenol	EPA 8270D	Benzaldehyde	EPA 8270D
2,4-Dimethylphenol	EPA 8270D	Benzoic Acid	EPA 8270D
2,4-Dinitrophenol	EPA 8270D	Benzyl alcohol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D	Caprolactam	EPA 8270D
2-Chlorophenol	EPA 8270D	Dibenzofuran	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D	Ethyl methanesulfonate	EPA 8270D
2-Methylphenol	EPA 8270D	Isosafrole	EPA 8270D
2-Nitrophenol	EPA 8270D	Methyl methanesulfonate	EPA 8270D
3-Methylphenol	EPA 8270D	O,O,O-Triethyl phosphorothioate	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D	Phenacetin	EPA 8270D
4-Methylphenol	EPA 8270D	Safrole	EPA 8270D
4-Nitrophenol	EPA 8270D	Volatile Aromatics	
Pentachlorophenol	EPA 8270D	1,2,4-Trichlorobenzene, Volatile	EPA 8260C
Phenol	EPA 8270D	1,2,4-Trimethylbenzene	EPA 8260C
		1.2-Dichlorobenzene	EPA 8260C

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Volatile Aromatics		Volatile Halocarbons	
1,3,5-Trimethylbenzene	EPA 8260C	1,1,2,2-Tetrachloroethane	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C	1,1,2-Trichloroethane	EPA 8260C
2-Chlorotoluene	EPA 8260C	1,1-Dichloroethane	EPA 8260C
4-Chlorotoluene	EPA 8260C	1,1-Dichloroethene	EPA 8260C
Benzene	EPA 8260C	1,1-Dichloropropene	EPA 8260C
Bromobenzene	EPA 8260C	1,2,3-Trichloropropane	EPA 8260C
Chlorobenzene	EPA 8260C	1,2-Dibromo-3-chloropropane	EPA 8260C
Ethyl benzene	EPA 8260C	1,2-Dibromoethane	EPA 8260C
Isopropylbenzene	EPA 8260C	1,2-Dichloroethane	EPA 8260C
m/p-Xylenes	EPA 8260C	1,2-Dichloropropane	EPA 8260C
Naphthalene, Volatile	EPA 8260C	1,3-Dichloropropane	EPA 8260C
n-Butylbenzene	EPA 8260C	2,2-Dichloropropane	EPA 8260C
n-Propylbenzene	EPA 8260C	2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
o-Xylene	EPA 8260C	2-Chloroethylvinyl ether	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C	3-Chloropropene (Allyl chloride)	EPA 8260C
sec-Butylbenzene	EPA 8260C	Bromochloromethane	EPA 8260C
Styrene	EPA 8260C	Bromodichloromethane	EPA 8260C
tert-Butylbenzene	EPA 8260C	Bromoform	EPA 8260C
Toluene	EPA 8260C	Bromomethane	EPA 8260C
Total Xylenes	EPA 8260C	Carbon tetrachloride	EPA 8260C
Volatile Halocarbons		Chloroethane	EPA 8260C
1,1,1,2-Tetrachloroethane	EPA 8260C	Chloroform	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C	Chloromethane	EPA 8260C
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Volatile Halocarbons		Volatile Organics	
cis-1,2-Dichloroethene	EPA 8260C	Carbon Disulfide	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C	Cyclohexane	EPA 8260C
Dibromochloromethane	EPA 8260C	Di-ethyl ether	EPA 8260C
Dibromomethane	EPA 8260C	Ethylene Glycol	EPA 8015C
Dichlorodifluoromethane	EPA 8260C	Isobutyl alcohol	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C	Isopropanol	EPA 8260C
Methyl iodide	EPA 8260C	Methyl acetate	EPA 8260C
Methylene chloride	EPA 8260C	Methyl cyclohexane	EPA 8260C
Tetrachloroethene	EPA 8260C	Methyl tert-butyl ether	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C	n-Butanol	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C	o-Toluidine	EPA 8270D
trans-1,4-Dichloro-2-butene	EPA 8260C	Propionitrile	EPA 8260C
Trichloroethene	EPA 8260C	tert-butyl alcohol	EPA 8260C
Trichlorofluoromethane	EPA 8260C	Tetrahydrofuran	EPA 8260C
Vinyl chloride	EPA 8260C	Vinyl acetate	EPA 8260C
Volatile Organics		Sample Preparation Methods	
1,4-Dioxane	EPA 8260C		EPA 5035A-L
	EPA 8270D		EPA 5035A-H
2-Butanone (Methylethyl ketone)	EPA 8260C		EPA 3580A
2-Hexanone	EPA 8260C		EPA 9030B
2-Nitropropane	EPA 8260C		EPA 3050B
4-Methyl-2-Pentanone	EPA 8260C		EPA 3546
Acetone Acetone	EPA 8260C		EPA 3060A
Acetonitrile	EPA 8260C		EPA 3541

Serial No.: 64295





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

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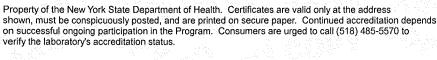
is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Miscellaneous

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

Serial No.: 64296

Page 1 of 1







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

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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

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

Serial No.: 66012





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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 SO4)	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

Serial No.: 66012





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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
Waladia Halasankana	

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

Serial No.: 66012





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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	

Serial No.: 66012





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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

Serial No.: 66013

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EPA 625.1



Pyridine



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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

Serial No.: 66013





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Chlorinated Hydrocarbon Pesticides

EPA 608.3	
EPA 8270D	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8270D	
EPA 8270D	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
	EPA 8270D EPA 8081B EPA 608.3 EPA 8270D EPA 8270D EPA 8270D EPA 8081B EPA 608.3 EPA 8081B

Serial No.: 66013





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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

Chlorophenoxy Acid Pesticides

Pentachlorobenzene

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

Serial No.: 66013

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FPA 8270D





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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

Serial No.: 66013





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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)

EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

Serial No.: 66013

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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

Serial No.: 66013





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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

Serial No.: 66013





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

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

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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

Serial No.: 66013





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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 SO4) 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)

Serial No.: 66013





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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** EPA 625.1 2,4-Dinitrotoluene **EPA 8270D**

EPA 625.1

2.6-Dinitrotoluene

EPA 8270D

4-Nitroquinoline-1-oxide **EPA 8270D** EPA 625.1 Isophorone

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** EPA 625.1 N-Nitrosodi-n-propylamine **EPA 8270D** N-Nitrosodiphenylamine EPA 625.1

Serial No.: 66013





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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)
	EDA 000 0 D 0.4 (4000)

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

Serial No.: 66013





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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

Serial No.: 66013





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Polychlorinated Biphenyls

EPA 608.3
EPA 8082A
EPA 608.3
EPA 8082A
EPA 608.3
EPA 8082A
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

Serial No.: 66013

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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 PhenoIs		
2,3,4,6 Tetrachlorophenol	EPA 8270D	
2,4,5-Trichlorophenol	EPA 625.1	
	EPA 8270D	

Serial No.: 66013

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

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EPA 625.1

EPA 8270D

EPA 625.1 EPA 8270D

EPA 625.1 EPA 8270D 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

Serial No.: 66013





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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

Serial No.: 66013

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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

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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

Serial No.: 66013





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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	

Serial No.: 66013





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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

Serial No.: 66013





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NY Lab Id No: 10145

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

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:

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

EPA 8081B
EPA 8081B
EPA 8270D
EPA 8081B
EPA 8081B
EPA 8270D
EPA 8081B
EPA 8270D
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

Metals I

Pyrene Low Level

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

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EPA 8270D





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Metals I

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	
	ED4 00004	

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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

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	2171002071
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 SO4)	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

EPA 8270D
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

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

Volatile Aromatics

Safrole

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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EPA 8270D





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All approved analytes are listed below:

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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All approved analytes are listed below:

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

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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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





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

NY Lab Id No: 10145

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

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.: 66015



American Premier Underwriters, Inc.

One East Fourth Street Cincinnari, Ohio 45202 Telephone (513) 579-6616 Facrimile (513) 579-0108

Michael L. Cloff Vice President and Assistant General Counses

May 25, 1995

. Effective June 1, 1995, L 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 dióffi

Vice President and Assistant General Counsel American Premier Underwriters, Inc.



Period: Annual Report for 2024

APPENDIX C

1Q24 Discharge Report

52 Federal Road, Suite 2C Danbury, CT 06810 Tele: (203) 205-9000 Fax: (203) 205-9011 www.unicornmgt.com



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 Zilagyi. 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

Responsiveness • Solutions • Quality



• 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



ANALYSIS SUMMARY TABLE QUARTERLY DISCHARGE SAMPLING EVENT

March 7, 2024

ANALYTES								
DATE	Composite TIME	Ave. Temp °F	Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD	FLOW
BSA LIMITS				250 mg/L	100 mg/L	20 mg/L	65 mg/L	
			5 TO 12			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 SAMP	PLE 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 = 4.80 mg/L



2024 Discharge Summary

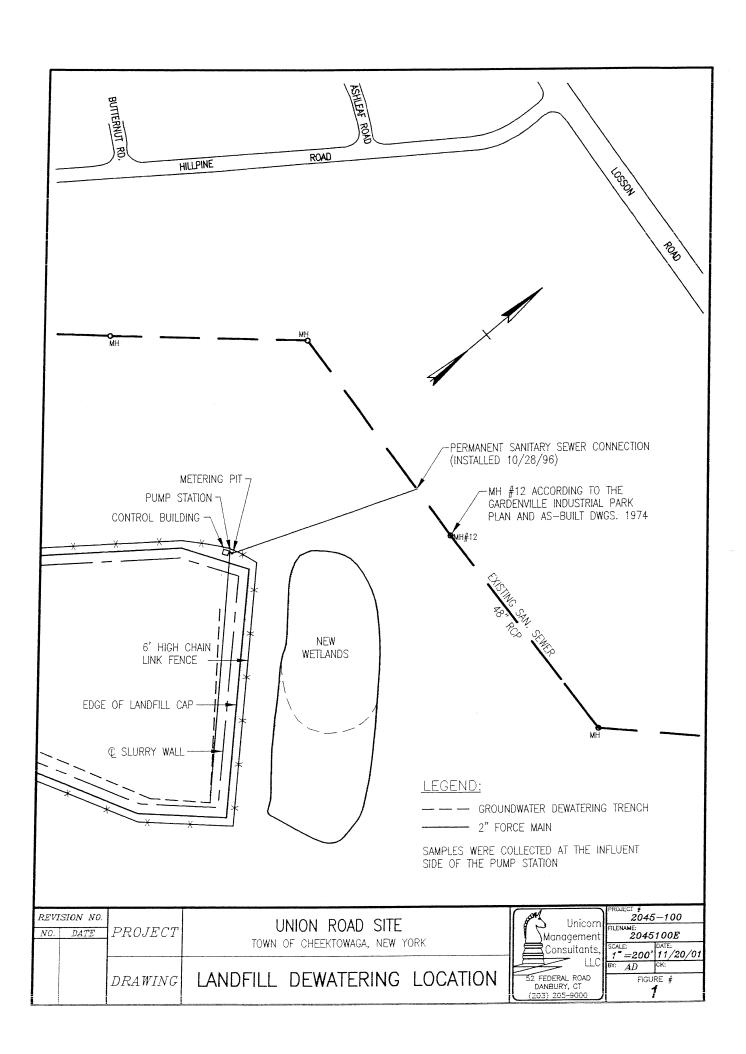
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
	246	(1000.1201)	Canona i ampea per Quarter
1Q23	3/7/2024	173,601	7,643
		Yearly Total Gallons	7,643



Conversion Formula

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

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





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@alsqlobal.com.

Respectfully submitted,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



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 Service Request: R2401870

Project: Union Rd Date Received: 03/07/2024

Sample Matrix: Water

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.

	Michael Pedio			
Approved by	<u> </u>	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						
Analyte	Results	Results Flag			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 Service Request:R2401870

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2401870-001
 1Q24 Effluent
 3/7/2024
 0920

Chain of Custody / Analytical Request Form											72227 SR#:											
ALS	1565 Jefferson Road, Buildi	ad, Building 300, Suite 360 • Rochester, NY																Page 1		1	of 1	
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CW.	ichaelsen@unicornmaticon			-		GW WW	ر ا		24.5	625	•		ے ا	Selo	- 2 2			~	1			3. H2SO4
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Address: 5	a Federal Ad svite ac	Emafl CC:				DW s	ntai		826(- 8270	81	809	151	Sel	\ eq	νąd		Ø.	72			5. Zn Acet
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(ALS)	Sample ID:	,		Date	Time	Σ̈́	-	Σ̈́	9	9	Pe	2	물	ĮĔ	ĮŠ	1-		5	1-		Ш	Notes:
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Special Ins	tructions / Comments:			<u> </u>	Turnaround Requirements Re					lepoi	eport Requirements					Metals: RCRA 8-PP 13-TAL 23-TCLP-Other (List						
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Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

R2401870 5

Did all bottle labels and tags agree with custody papers? Were correct containers used for the tests indicated? Were 5035 vials acceptable (no extra labels, not leaking)? Were dissolved metals filtered in the field? Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A Lot of test paper NaOH NaOH 2 213623 HNO3	(, , , _	-, , ,	Michae	. ^										
Were Custody seals on outside of cooler? V N Sa Perchlorate samples have required headspace? Y N N N Should be properly completed (ink, signed)? Y N Sa Did VOA vials, Alk, or Sulfide have sig* bubbles? Y N N Should all bottles arrive in good condition (unbroken)? Y N Sa Did VOA vials, Alk, or Sulfide have sig* bubbles? Y N N N Should all bottles arrive in good condition (unbroken)? Y N Soil VOA received as: Bulk Encore 5035set N Served Temp (*C) Order temp (*	roject/Cli	ent	riicor	<u>Y)</u>		Folde	r Number_						·—	
Custody papers properly completed (ink, signed)? YN 5b Did VOA vials, Alk, or Suifide have sig* bubbles? YN N Did all bottles arrive in good condition (unbroken)? YN 6 Where did the bottles originate? ALSROC CLIENT Circle: Wet Lee Dry Ice Gel packs present? YN 7 Soil VOA received as: Bulk Encore 5035set MA Encore 5035set M	oler receiv	$\sqrt{2}$ ed on 3	7/24	by:	32	§. ઁ	COURIER	: ALS	UPS	FEDEX	VELC	CITY (CL	IENT	
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Circle: Vet Ice Dry Ice Gel packs present? YN 7 Soil VOA received as: Bulk Encore 5035set 82 emperature Readings Date: 3 124 Time: 114 ID: IR#12 (R#1) From: Temp Blank (ample B served Temp (°C)	Custody	papers prop	erly completed (i	nk, sigr	ned)?	VV	5b Did	VOA via	ıls, Alk,	r Sulfide	have sig	* bubbles?	Y	W N
emperature Readings Date: 2 724 Time: 114 ID: R#12 (R#1) From: Temp Blank (ample B served Temp (°C) 2.4 Imin 0.6°C? (D) N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Did all b	ottles arrive i	good condition	(unbro	ken)?	YN	6 Whe	re did th	e bottles	originate'	? (ALSTROC	CLI	ENT
Samples frozen? Samples frozen? N N Y N Y N Y N Y N Y N Y N Y N Y N Y	Circle:	Wet Ice Dr	y Ice Gel packs	pre	sent?	YN	7 Soil	VOA rec	ceived as	: Buli	k En	core 503	5set	MÃ
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thin 0-6°C? O'C, were samples frozen? YN			2.4										\top	
If out of Temperature, note packing/ice condition: Scellent Approval to Run Samples: Standing Approval Standing Approval Client aware at drop-off Client notified by: It samples held in storage location: Sy on at within 48 hours of sampling? Y N Cooler Breakdown/Preservation Check**: Date: 3/1/2 / Time: 1257 by: RR Were all bottle labels complete (i.e. analysis, preservation, etc.)? Were all bottle labels and tags agree with custody papers? Were correct containers used for the tests indicated? Were 5035 vials acceptable (no extra labels, not leaking)? Were dissolved metals filtered in the field? Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized Hold Lot of test Reagent Preserved? Preserved? Lot Received Exp Sample-ID Vol. Lot Added Final paper Preserved? Lot Received Exp Sample-ID Vol. Lot Added PH Adjusted Added PH Adjusted Added PH Adjusted Added Phot to be tested before analysis. Chilorine Phenolo 625, NoNoNoNoNoNoNoNoNoNo			(Y) N			N	Y N	Y	N	YN	1	YN	Y	N
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Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A) DH Lot of test paper Reagent Prescred? Lot Received Exp Sample-ID Adjusted Added Prinal Prin	12.	Were 5035 via	ls acceptable (no	extra la	abels,	not leaking)?		ŒS N)			
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2 2136/23 HNO3	>12	paper	NaOH	163	140	 		-	Adjust	ea /	Added	 -		pH
H ₂ SO ₄	<u>=12</u> ≤2	213622		17		2400	221.7	5hc		· -				
NaHSO4 NaHSO4 No=Notify for 3day Residual For CN, Phenol, 625, 608 pest, 522 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 preservative are checked (not just representatives). **Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives).	<u>==</u> ≤2			 	1			 -				 		
Residual For CN, If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). Na ₂ S ₂ O ₃ ZnAcetate				-	†	2220	000	2127	·			 		<u> </u>
Residual Chlorine Phenol. 625, 608pest, 522 Na ₂ S ₂ O ₃ ZnAcetate HCl ** ** For CN, If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). CN, ascorbic (phenol). CN, ascorbic (phenol). **VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives). Sottle lot numbers: O10124-2AES 100322-1EKP 040323-2EFO	5-9			_		No=Notif	y for 3day	 	-			 	·	
Chlorine Phenol, 625, 608pest, 522 Na ₂ S ₂ O ₃ Na ₂ S ₂ O ₃ Na ₂ S ₂ O ₃ Phenol, 625, 608pest, 522 Na ₂ S ₂ O ₃ 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 preservative are checked (not just representatives). Sottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ	Residual	· ·		†				1				 		
Na ₂ S ₂ O ₃ ZnAcetate HCl ** ** Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives). Bottle lot numbers: O10124-2AES 100322-1EKP 040323-2EFQ	Chlorine			🗸	1					Ì				
ZnAcetate	(-)		608pest, 522			CN), ascor	rbic (phenol).					•		
HCl ** ** Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives). Bottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ			Na ₂ S ₂ O ₃									<u> </u>		
HCl ** ** Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives). Bottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ				<u> </u>	-				**VOAs	and 1664 N	ot to be to	sted before an	alysis.	
Bottle lot numbers: 0/0/24 - 2AES . 100322 - IEKP . 040323 - 2EFO	•		HCl	**	**				Otherwis	e, ali bottle:	of all sar	uples with che	mical pre	servativo
										es (mor just	represent	auves).		
· · · · · · · · · · · · · · · · · · ·	Bottle lot	numbers:	010124-26) F G	11	10272	IEKO N	40272			represent	anves).		
			010124 - 26	IES,	10	0322-1	EKP, O	10323			represent	anves).		
			010124 - 26 es/ Other Comm	IES,	10	0322-1	EKP, O	10323			represent	anves).		

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR
PC Secondary Review:

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*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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

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- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



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

Client: Unicorn Management Consultants Service Request: R2401870

Project: Union Rd/2011-100

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 Date Collected: 03/7/24

Lab Code: R2401870-001 **Date Received:** 03/7/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B CCAMPBELL

420.4 BBOWE

6010C CDISTEFANO MMCMAHON

SM 2540 D-2015 SM 4500-H+ B 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)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	
For analytical methods not listed, method is the same as the analytic 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

Service Request: R2401870 **Date Collected:** 03/07/24 09:20 **Project:** Union Rd/2011-100

Date Received: 03/07/24 11:06 **Sample Matrix:** Water

Sample Name: 1Q24 Effluent Basis: NA

Lab Code: R2401870-001

Inorganic Parameters

Analysis

Analyte Name	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 **Date Collected:** 03/07/24 09:20

Sample Matrix: Water Date Received: 03/07/24 11:06

Sample Name: 1Q24 Effluent Basis: NA

Lab Code: R2401870-001

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	
pН	SM 4500-H+ B	7.07	pH Units	-	1	03/07/24 15:49	Н
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	Н

Service Request: R2401870



QC Summary Forms

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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

Service Request: R2401870

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: Water

Date Received: NA

Sample Name:

Method Blank

Basis: NA

Lab Code:

R2401870-MB

Inorganic Parameters

Analysis

Analyte Name	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

Service Request: R2401870 Union Rd/2011-100 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2401870-MB

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 **Date Analyzed:** 03/11/24 - 03/12/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2401870

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 Date Analyzed: 03/15/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2401870

Lab Control Sample

Duplicate Lab Control Sample

R2401870-LCS1

R2401870-DLCS1

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Oil and Grease, Total (HEM)	1664B	40.2	41.7	96	38.6	42.6	91	78-114	4	18



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		Metals I	
Coliform, Total / E. coli (Qualitative)	SM 20, 21-23 9223B (-04) (Colilert)	Manganese, Total	EPA 200.8 Rev. 5.4
Disinfection By-products		Mercury, Total	EPA 245.1 Rev. 3.0
Bromide Bromide	EPA 300.0 Rev. 2.1	Selenium, Total	EPA 200.8 Rev. 5.4
	LI A 300.0 Nev. 2.4	Silver, Total	EPA 200.7 Rev. 4.4
Dissolved Gases			EPA 200.8 Rev. 5.4
Acetylene	RSK-175	Zinc, Total	EPA 200.7 Rev. 4.4
Ethane	RSK-175		EPA 200.8 Rev. 5.4
Ethene (Ethylene)	RSK-175	85-4-1- 11	
Methane	RSK-175	Metals II	
Propane	RSK-175	Aluminum, Total	EPA 200.7 Rev. 4.4
Fuel Additives		Antimony, Total	EPA 200.8 Rev. 5.4
	화 경에 없이 없이 그는 그는 전혀 모습니다.	Beryllium, Total	EPA 200.7 Rev. 4.4
Methyl tert-butyl ether	EPA 524.2		EPA 200.8 Rev. 5.4
Naphthalene	EPA 524.2	Molybdenum, Total	EPA 200.7 Rev. 4.4
Metals I			EPA 200.8 Rev. 5.4
Arsenic, Total	EPA 200.8 Rev. 5.4	Nickel, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.8 Rev. 5.4	Thallium, Total	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.8 Rev. 5.4	Vanadium, Total	EPA 200.7 Rev. 4.4
Chromium, Total	EPA 200.7 Rev. 4.4	Metals III	
	EPA 200.8 Rev. 5.4	Boron, Total	EPA 200.7 Rev. 4.4
Copper, Total	EPA 200.7 Rev. 4.4	Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4	Magnesium, Total	EPA 200.7 Rev. 4.4
Iron, Total	EPA 200.7 Rev. 4.4	Potassium, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4	Sodium, Total	EPA 200.7 Rev. 4.4
Manganese, Total	EPA 200.7 Rev. 4.4	(4.2)	

Serial No.: 64293





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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 POTABLE WATER All approved analytes are listed below:

Miscellaneous		Trihalomethanes	
1,4-Dioxane	EPA 522	Chloroform	EPA 524.2
Organic Carbon, Dissolved	SM 21-23 5310C (-00)	Dibromochloromethane	EPA 524.2
Organic Carbon, Total	SM 21-23 5310B (-00)	Total Trihalomethanes	EPA 524.2
Turbidity UV 254	SM 21-23 5310C (-00) EPA 180.1 Rev. 2.0 SM 21-23 5910B (-00,-11)	Volatile Aromatics 1,2,3-Trichlorobenzene	EPA 524.2
Non-Metals	SIM 21-23 3310B (-00;-11)	1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	EPA 524.2 EPA 524.2
Alkalinity	SM 21-23 2320B (-97)	1,2-Dichlorobenzene	EPA 524.2
Calcium Hardness	SM 18-22 2340B (-97)	1,3,5-Trimethylbenzene	EPA 524.2
Chloride	EPA 300.0 Rev. 2.1	1,3-Dichlorobenzene	EPA 524.2
Color	SM 21-23 2120B (-01)	1,4-Dichlorobenzene	EPA 524.2
Corrosivity	SM 18-22 2330	2-Chlorotoluene	EPA 524.2
Cyanide	Kelada 01, Rev. 1.2	4-Chlorotoluene	EPA 524.2
	EPA 335.4 Rev. 1.0	Benzene	EPA 524.2
Fluoride, Total	EPA 300.0 Rev. 2.1	Bromobenzene	EPA 524.2
Nitrate (as N)	EPA 353.2 Rev. 2.0	Chlorobenzene	EPA 524.2
Nitrite (as N)	EPA 353.2 Rev. 2.0	Ethyl benzene	EPA 524.2
Orthophosphate (as P)	EPA 365.1 Rev. 2.0	Hexachlorobutadiene	EPA 524.2
Solids, Total Dissolved	SM 21-23 2540C (-97)	Isopropylbenzene	EPA 524.2
Specific Conductance	EPA 120.1 Rev. 1982	n-Butylbenzene	EPA 524.2
Sulfate (as SO4)	EPA 300.0 Rev. 2.1	n-Propylbenzene	EPA 524.2
Trihalomethanes		p-Isopropyltoluene (P-Cymene)	EPA 524.2
Bromodichloromethane	EPA 524.2	sec-Butylbenzene	EPA 524.2
Bromoform	EPA 524.2	Styrene	EPA 524.2

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All approved analytes are listed below:

Volatile Aromatics		Volatile Halocarbons	
tert-Butylbenzene	EPA 524.2	Dichlorodifluoromethane	EPA 524.2
Toluene	EPA 524.2	Methylene chloride	EPA 524.2
Total Xylenes	EPA 524.2	Tetrachloroethene	EPA 524.2
Volatile Halocarbons		trans-1,2-Dichloroethene	EPA 524.2
1,1,1,2-Tetrachloroethane	© EPA 524.2	trans-1,3-Dichloropropene	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2	Trichloroethene	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2	Trichlorofluoromethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2	Vinyl chloride	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		

Serial No.: 64293





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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:

Acrylates		Amines	
Acrolein (Propenal)	EPA 8260C	Pronamide	EPA 8270D
	EPA 624.1	Propionitrile	EPA 8260C
Acrylonitrile	EPA 8260C	Pyridine	EPA 625.1
	EPA 624.1		EPA 8270D
Ethyl methacrylate	EPA 8260C	Benzidines	
Methyl acrylonitrile	EPA 8260C	3,3'-Dichlorobenzidine	EPA 625.1
Methyl methacrylate	EPA 8260C		EPA 8270D
Amines		3,3'-Dimethylbenzidine	EPA 8270D
1,2-Diphenylhydrazine	EPA 625.1	Benzidine	EPA 625.1
	EPA 8270D		EPA 8270D
1,4-Phenylenediamine	EPA 8270D	Chlorinated Hydrocarbon Pestic	ides
1-Naphthylamine	EPA 8270D	4,4'-DDD	EPA 8081B
2-Naphthylamine	EPA 8270D	생생 - 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EPA 608.3
2-Nitroaniline	EPA 8270D	4,4'-DDE	EPA 8081B
3-Nitroaniline	EPA 8270D		EPA 608.3
4-Chloroaniline	EPA 8270D	100-40 4,4'-DDT	EPA 8081B
4-Nitroaniline	EPA 8270D		EPA 608.3
5-Nitro-o-toluidine	EPA 8270D	Aldrin	EPA 8081B
Aniline	EPA 625.1		EPA 608.3
	EPA 8270D	alpha-BHC	EPA 8081B
Carbazole	EPA 625.1		EPA 608.3
	EPA 8270D	alpha-Chlordane	EPA 8081B
Diphenylamine	EPA 8270D		EPA 608.3
Methapyrilene	EPA 8270D	beta-BHC	EPA 8081B

Serial No.: 64294





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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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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 NON POTABLE WATER
All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides		Chlorinated Hydrocarbon Pesticide	s The State of the
beta-BHC	EPA 608.3	Heptachlor epoxide	EPA 8081B
Chlordane Total	EPA 8081B		EPA 608.3
	EPA 608.3	Isodrin	EPA 8270D
Chlorobenzilate	EPA 8270D	Kepone	EPA 8270D
delta-BHC	EPA 8081B	Lindane	EPA 8081B
	EPA 608.3		EPA 608.3
Diallate	EPA 8270D	Methoxychlor	EPA 8081B
Dieldrin	EPA 8081B		EPA 608.3
	EPA 608.3	Mirex	EPA 8081B
Endosulfan I	EPA 8081B	PCNB	EPA 8270D
	EPA 608.3	Toxaphene	EPA 8081B
Endosulfan II	EPA 8081B		EPA 608.3
	EPA 608.3	Chlorinated Hydrocarbons	
Endosulfan sulfate	EPA 8081B	1,2,3-Trichlorobenzene	EPA 8260C
	EPA 608.3	1,2,4,5-Tetrachlorobenzene	EPA 8270D
Endrin	EPA 8081B	1,2,4-Trichlorobenzene	EPA 625.1
	EPA 608.3		EPA 8270D
Endrin aldehyde	EPA 8081B	2-Chloronaphthalene	EPA 625.1
	EPA 608.3		EPA 8270D
Endrin Ketone	EPA 8081B	Hexachlorobenzene	EPA 625.1
gamma-Chlordane	EPA 8081B		EPA 8270D
	EPA 608.3	Hexachlorobutadiene	EPA 625.1
Heptachlor	EPA 8081B		EPA 8270D
	EPA 608.3	Hexachlorocyclopentadiene	EPA 625.1

Serial No.: 64294





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Chlorinated Hydrocarbons		Fuel Oxygenates	
Hexachlorocyclopentadiene	EPA 8270D	Di-isopropyl ether	EPA 8260C
Hexachloroethane	EPA 625.1		EPA 8015C
	EPA 8270D	Ethanol	EPA 8015C
Hexachloropropene	EPA 8270D	Methyl tert-butyl ether	EPA 8260C
Pentachlorobenzene	EPA 8270D		EPA 624.1
Chlorophenoxy Acid Pesticides		tert-amyl methyl ether (TAME)	EPA 8260C
2,4,5-T	EPA 8151A	tert-butyl alcohol	EPA 8260C
2,4,5-TP (Silvex)	EPA 8151A		EPA 624.1
2,4-D	EPA 8151A	tert-butyl ethyl ether (ETBE)	EPA 8260C
Dicamba	EPA 8151A	Haloethers	
Dinoseb	EPA 8151A	2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D		EPA 8270D
Pentachlorophenol	EPA 8151A	4-Bromophenylphenyl ether	EPA 625.1
Demand			EPA 8270D
Biochemical Oxygen Demand	SM 5210B-2016	4-Chlorophenylphenyl ether	EPA 625.1
Carbonaceous BOD	SM 5210B-2016		EPA 8270D
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)	Bis(2-chloroethoxy)methane	EPA 625.1
			EPA 8270D
Dissolved Gases		Bis(2-chloroethyl)ether	EPA 625.1
Acetylene	RSK-175		EPA 8270D
Ethane	RSK-175		
Ethene (Ethylene)	RSK-175	Low Level Polynuclear Aromatics	
Methane	RSK-175	Acenaphthene Low Level	EPA 610
Propane	RSK-175		EPA 8270D
		Acenaphthylene Low Level	EPA 610

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Low Level Polynuclear Aromatics		Low Level Polynuclear Aromatics	
Acenaphthylene Low Level	EPA 8270D	Phenanthrene Low Level	EPA 8270D
Anthracene Low Level	EPA 610	Pyrene Low Level	EPA 610
	EPA 8270D		EPA 8270D
Benzo(a)anthracene Low Level	EPA 610	Metals I	
	EPA 8270D	Barium, Total	EPA 200.7, Rev. 4.4 (1994)
Benzo(a)pyrene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Benzo(b)fluoranthene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
Benzo(g,h,i)perylene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Benzo(k)fluoranthene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
Chrysene Low Level	EPA 8270D		EPA 6010C
Dibenzo(a,h)anthracene Low Level	EPA 8270D	Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
Fluoranthene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Fluorene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Copper, Total	EPA 200.7, Rev. 4.4 (1994)
Indeno(1,2,3-cd)pyrene Low Level	EPA 610		EPA 6010C
	EPA 8270D		EPA 6020A
Naphthalene Low Level	EPA 610		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270D	Iron, Total	EPA 200.7, Rev. 4.4 (1994)
Phenanthrene Low Level	EPA 610		EPA 6010C

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Metals I		Metals II	
Lead, Total	EPA 200.7, Rev. 4.4 (1994)	Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C		EPA 6010C
	EPA 6020A		EPA 200.8, Rev. 5.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)	Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010C
	EPA 6010C		EPA 6020A
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010C	Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020A		EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)		EPA 6020A
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010C	Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020A		EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)		EPA 6020A
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010C	Chromium VI	EPA 218.6, Rev. 3.3 (1994)
Silver, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 7196A
	EPA 6010C		EPA 7199
	EPA 6020A		SM 3500-Cr B-2011
	EPA 200.8, Rev. 5.4 (1994)	Mercury, Low Level	EPA 1631E
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)	Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 6010C		EPA 7470A
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)	Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C		EPA 6010C

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Metals II		Metals III	
Selenium, Total	EPA 6020A	Tin, Total	EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)	Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010C
	EPA 6010C	Uranium (Mass)	EPA 6020A
	EPA 6020A	Mineral	
	EPA 200.8, Rev. 5.4 (1994)	Alkalinity	SM 2320B-2011
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)	Calcium Hardness	SM 2340B-2011
	EPA 6010C	Chloride	EPA 300.0, Rev. 2.1 (1993)
	EPA 6020A		EPA 9056A
	EPA 200.8, Rev. 5.4 (1994)	Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)
Metals III			EPA 9056A
Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)	Hardness, Total	SM 2340C-2011
	EPA 6010C		SM 2340B-2011
	EPA 6020A	Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)
	EPA 200.8, Rev. 5.4 (1994)		EPA 9056A
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)	Miscellaneous	
	EPA 6010C	Boron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020A		EPA 6010C
	EPA 200.8, Rev. 5.4 (1994)	Bromide	EPA 300.0, Rev. 2.1 (1993)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 9056A
	EPA 6010C	Color	SM 2120B-2011
	EPA 6020A	Corrosivity	SM 2330-2016
	EPA 200.8, Rev. 5.4 (1994)	Cyanide, Available	SM 4500-CN G-2016
Tin, Total	EPA 200.7, Rev. 4.4 (1994)	Cyanide, Total	Kelada-01

Serial No.: 64294





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Miscellaneous		Nitroaromatics and Isophorone	
Cyanide, Total	SM 4500-CN E-2016	Isophorone	EPA 625.1
	EPA 335.4, Rev. 1.0 (1993)		EPA 8270D
	EPA 9012B	Nitrobenzene	EPA 625.1
Formaldehyde	EPA 8315A		EPA 8270D
non-Polar Extractable Material (TPH)	EPA 1664B	Nitrosoamines	
Oil and Grease Total Recoverable	EPA 1664B	N-Nitrosodiethylamine	EPA 8270D
Organic Carbon, Total	SM 5310B-2011	N-Nitrosodimethylamine	EPA 625.1
	SM 5310C-2011	. See	EPA 8270D
	EPA 9060A	N-Nitrosodi-n-butylamine	EPA 8270D
Phenols	EPA 420.4, Rev. 1.0 (1993)	N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 9066		EPA 8270D
Specific Conductance	EPA 120.1 (Rev. 1982)	N-Nitrosodiphenylamine	EPA 625.1
Sulfide (as S)	SM 4500-S2- F-2011		EPA 8270D
	EPA 9034	N-nitrosomethylethylamine	EPA 8270D
Turbidity	EPA 180.1, Rev. 2.0 (1993)	N-nitrosomorpholine	EPA 8270D
Nitroaromatics and Isophorone		N-nitrosopiperidine	EPA 8270D
1,3,5-Trinitrobenzene	EPA 8270D	N-Nitrosopyrrolidine	EPA 8270D
1,3-Dinitrobenzene	EPA 8270D	Nutrient	
1,4-Naphthoquinone	EPA 8270D	Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
2,4-Dinitrotoluene	EPA 625.1	Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
	EPA 8270D	Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
2,6-Dinitrotoluene	EPA 625.1		EPA 300.0, Rev. 2.1 (1993)
	EPA 8270D		EPA 9056A
4-Nitroquinoline-1-oxide	EPA 8270D	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
Atrazine	EPA 8270D		EPA 8270D
Dimethoate	EPA 8270D	Polychlorinated Biphenyls	
Disulfoton	EPA 8270D	Aroclor 1016 (PCB-1016)	EPA 8082A
Famphur	EPA 8270D		EPA 608.3
Parathion ethyl	EPA 8270D	Aroclor 1221 (PCB-1221)	EPA 8082A
Parathion methyl	EPA 8270D		EPA 608.3
Phorate	EPA 8270D	Aroclor 1232 (PCB-1232)	EPA 8082A
Sulfotepp	EPA 8270D		EPA 608.3
Thionazin	EPA 8270D	Aroclor 1242 (PCB-1242)	EPA 8082A
Petroleum Hydrocarbons			EPA 608.3
Diesel Range Organics	EPA 8015C	Aroclor 1248 (PCB-1248)	EPA 8082A
경기 가는 것으로 들어 가장 되다는 것이 그렇게 그			EPA 608.3
Phthalate Esters	(2015년 - 1915년 - 1915년 1일 (1915년 - 1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 1일 (1915년 - 1915년 - 1915년 - 1915년 - 1915년 1일 (1915년 1일 (1915	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	역회통하실하는 역정하는 1987년 - 1987년	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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		교장 이번 사람들은 경우이 나면 주었는데 고양하는데 되었다.	
Polynuclear Aromatics		Polynuclear Aromatics	
2-Acetylaminofluorene	EPA 8270D	Fluoranthene	EPA 8270D
3-Methylcholanthrene	EPA 8270D	Fluorene	EPA 625.1
7,12-Dimethylbenzyl (a) anthracene	EPA 8270D		EPA 8270D
Acenaphthene	EPA 625.1	Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D		EPA 8270D
Acenaphthylene	EPA 625.1	Naphthalene	EPA 625.1
	EPA 8270D		EPA 8270D
Anthracene	EPA 625.1	Phenanthrene	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(a)anthracene	EPA 625.1	Pyrene	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(a)pyrene	EPA 625.1	Priority Pollutant Phenols	
	EPA 8270D	2,3,4,6 Tetrachlorophenol	EPA 8270D
Benzo(b)fluoranthene	EPA 625.1	2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(g,h,i)perylene	EPA 625.1	2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Benzo(k)fluoranthene	EPA 625.1	2,4-Dichlorophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Chrysene	EPA 625.1	2,4-Dimethylphenol	EPA 625.1
	EPA 8270D		EPA 8270D
Dibenzo(a,h)anthracene	EPA 625.1	2,4-Dinitrophenol	EPA 625.1
	EPA 8270D		EPA 8270D
Fluoranthene	EPA 625.1	2.6-Dichlorophenol	EPA 8270D

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Priority Pollutant Phenols		Residue	
2-Chlorophenol	EPA 625.1	Solids, Total Dissolved	SM 2540 C-2015
	EPA 8270D	Solids, Total Suspended	SM 2540 D-2015
2-Methyl-4,6-dinitrophenol	EPA 625.1	Solids, Volatile	SM 2540 E-2015
	EPA 8270D	Semi-Volatile Organics	
2-Methylphenol	EPA 625.1	1,1'-Biphenyl	EPA 8270D
	EPA 8270D	1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Nitrophenol	EPA 625.1	1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270D	1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
3-Methylphenol	EPA 625.1	2-Methylnaphthalene	EPA 625.1
	EPA 8270D		EPA 8270D
4-Chloro-3-methylphenol	EPA 625.1	2-Picoline	EPA 8270D
	EPA 8270D	4-Amino biphenyl	EPA 8270D
4-Methylphenol	EPA 625.1	Acetophenone	EPA 625.1
	EPA 8270D		EPA 8270D
4-Nitrophenol	EPA 625.1	alpha-Terpineol	EPA 625.1
	EPA 8270D	Aramite	EPA 8270D
Cresols, Total	EPA 8270D	Benzaldehyde	EPA 8270D
Pentachlorophenol	EPA 625.1	Benzoic Acid	EPA 8270D
	EPA 8270D	Benzyl alcohol	EPA 8270D
Phenol	EPA 625.1	Caprolactam	EPA 8270D
	EPA 8270D	Dibenzofuran	EPA 8270D
Residue		Ethyl methanesulfonate	EPA 8270D
Settleable Solids	SM 2540 F-2015	Isosafrole	EPA 8270D
Solids, Total	SM 2540 B-2015	Methyl methanesulfonate	EPA 8270D

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Semi-Volatile Organics		Volatile Aromatics	
O,O,O-Triethyl phosphorothioate	EPA 8270D	m/p-Xylenes	EPA 8260C
p-Dimethylaminoazobenzene	EPA 8270D		EPA 624.1
Phenacetin	EPA 8270D	Naphthalene, Volatile	EPA 8260C
Safrole	EPA 8270D		EPA 624.1
Volatile Aromatics		n-Butylbenzene	EPA 8260C
1,2,4-Trichlorobenzene, Volatile	EPA 8260C	n-Propylbenzene	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C	o-Xylene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C		EPA 624.1
	EPA 624.1	p-Isopropyltoluene (P-Cymene)	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C	sec-Butylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C	Styrene	EPA 8260C
	EPA 624.1		EPA 624.1
1,4-Dichlorobenzene	EPA 8260C	tert-Butylbenzene	EPA 8260C
	EPA 624.1	Toluene	EPA 8260C
2-Chlorotoluene	EPA 8260C		EPA 624.1
4-Chlorotoluene	EPA 8260C	Total Xylenes	EPA 8260C
Benzene	EPA 8260C		EPA 624.1
	EPA 624.1	Volatile Halocarbons	
Bromobenzene	EPA 8260C	1,1,1,2-Tetrachloroethane	EPA 8260C
Chlorobenzene	EPA 8260C	1,1,1-Trichloroethane	EPA 8260C
	EPA 624.1	레마리스 보다 전기 등 경험에 가속 되었다.	EPA 624.1
Ethyl benzene	EPA 8260C	1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624.1		EPA 624.1
Isopropylbenzene	EPA 8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane	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

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		Volatile Halocarbons	
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 624.1	Bromodichloromethane	EPA 624.1
1,1,2-Trichloroethane	EPA 8260C	Bromoform	EPA 8260C
	EPA 624.1		EPA 624.1
1,1-Dichloroethane	EPA 8260C	Bromomethane	EPA 8260C
	EPA 624.1		EPA 624.1
1,1-Dichloroethene	EPA 8260C	Carbon tetrachloride	EPA 8260C
	EPA 624.1		EPA 624.1
1,1-Dichloropropene	EPA 8260C	Chloroethane	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C		EPA 624.1
1,2-Dibromo-3-chloropropane	EPA 8260C	Chloroform	EPA 8260C
1,2-Dibromoethane	EPA 8260C		EPA 624.1
1,2-Dichloro-1,1,2-Trifluoroethane	EPA 8260C	Chloromethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C		EPA 624.1
	EPA 624.1	cis-1,2-Dichloroethene	EPA 8260C
1,2-Dichloropropane	EPA 8260C		EPA 624.1
	EPA 624.1	cis-1,3-Dichloropropene	EPA 8260C
1,3-Dichloropropane	EPA 8260C		EPA 624.1
2,2-Dichloropropane	EPA 8260C	Dibromochloromethane	EPA 8260C
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C		EPA 624.1
2-Chloroethylvinyl ether	EPA 8260C	Dibromomethane	EPA 8260C
	EPA 624.1	Dichlorodifluoromethane	EPA 8260C
3-Chloropropene (Allyl chloride)	EPA 8260C		EPA 624.1
Bromochloromethane	EPA 8260C	Hexachlorobutadiene, Volatile	EPA 8260C
Bromodichloromethane	EPA 8260C	Methyl lodide	EPA 8260C

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Volatile Halocarbons		Volatiles Organics	
Methylene chloride	EPA 8260C	Acetone	EPA 8260C
	EPA 624.1		EPA 624.1
Tetrachloroethene	EPA 8260C	Acetonitrile	EPA 8260C
	EPA 624.1		EPA 624.1
trans-1,2-Dichloroethene	EPA 8260C	Carbon Disulfide	EPA 8260C
	EPA 624.1	Cyclohexane	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C	Di-ethyl ether	EPA 8260C
	EPA 624.1	Ethyl Acetate	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C	STANDARD OF THE STANDARD	EPA 8015C
Trichloroethene	EPA 8260C	Ethylene Glycol	EPA 8015C
	EPA 624.1	Isobutyl alcohol	EPA 8260C
Trichlorofluoromethane	EPA 8260C		EPA 8015C
	EPA 624.1	Isopropanol	EPA 8260C
Vinyl chloride	EPA 8260C	Methanol	EPA 8015C
	EPA 624.1	Methyl acetate	EPA 8260C
Volatiles Organics		Methyl cyclohexane	EPA 8260C
1,4-Dioxane	EPA 8260C	n-Butanol	EPA 8260C
	EPA 8270D	o-Toluidine	EPA 8270D
	EPA 8270D SIM	Propylene Glycol	EPA 8015C
2-Butanone (Methylethyl ketone)	EPA 8260C	Tetrahydrofuran	EPA 8260C
2-Hexanone	EPA 8260C		EPA 624.1
2-Nitropropane	EPA 8260C	Vinyl acetate	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C		EPA 624.1

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All approved analytes are listed below:

Sample Preparation Methods

EPA 5030C

EPA 200.2

EPA 9030B

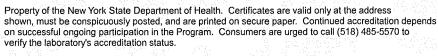
EPA 3010A

EPA 3005A

EPA 3510C

EPA 3535A

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All approved analytes are listed below:

Acrylates		Characteristic Testing	
Acrolein (Propenal)	EPA 8260C	Corrosivity (pH)	EPA 9040C
Acrylonitrile	EPA 8260C		EPA 9045D
Ethyl methacrylate	EPA 8260C	Free Liquids	EPA 9095B
Methyl acrylonitrile	EPA 8260C	Synthetic Precipitation Leaching Proc	c. EPA 1312
Methyl methacrylate	EPA 8260C	TCLP	EPA 1311
Amines		Chlorinated Hydrocarbon Pesticides	
1,2-Diphenylhydrazine	EPA 8270D	4,4'-DDD	EPA 8081B
1,4-Phenylenediamine	EPA 8270D	4,4'-DDE	EPA 8081B
1-Naphthylamine	EPA 8270D	4,4'-DDT	EPA 8081B
2-Naphthylamine	EPA 8270D	Aldrin	EPA 8081B
2-Nitroaniline	EPA 8270D	alpha-BHC	EPA 8081B
3-Nitroaniline	EPA 8270D	alpha-Chlordane	EPA 8081B
4-Chloroaniline	EPA 8270D	Atrazine	EPA 8270D
4-Nitroaniline	EPA 8270D	beta-BHC	EPA 8081B
5-Nitro-o-toluidine	EPA 8270D	Chlordane Total	EPA 8081B
Aniline	EPA 8270D	Chlorobenzilate	EPA 8270D
Carbazole	EPA 8270D	delta-BHC	EPA 8081B
Diphenylamine	EPA 8270D	Diallate	EPA 8270D
Methapyrilene	EPA 8270D	Dieldrin	EPA 8081B
Pronamide	EPA 8270D	Endosulfan I	EPA 8081B
Benzidines		Endosulfan II	EPA 8081B
3,3'-Dichlorobenzidine	EPA 8270D	Endosulfan sulfate	EPA 8081B
3,3'-Dimethylbenzidine	EPA 8270D	Endrin	EPA 8081B
Benzidine	EPA 8270D	Endrin aldehyde	EPA 8081B

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides		Chlorophenoxy Acid Pesticides	
Endrin Ketone	EPA 8081B	2,4,5-TP (Silvex) E	PA 8151A
gamma-Chlordane	EPA 8081B	2,4-D E	PA 8151A
Heptachlor	EPA 8081B	Dicamba	PA 8151A
Heptachlor epoxide	EPA 8081B	Dinoseb	PA 8270D
Isodrin	EPA 8270D	Pentachlorophenol E	PA 8151A
Kepone	EPA 8270D	Haloethers	
Lindane	EPA 8081B	2,2'-Oxybis(1-chloropropane) E	PA 8270D
Methoxychlor	EPA 8081B		PA 8270D
Pentachloronitrobenzene	EPA 8270D		PA 8270D
Toxaphene	EPA 8081B	마르막 경송 송하 경제 :	PA 8270D
Chlorinated Hydrocarbons		Bis(2-chloroethyl)ether E	PA 8270D
1,2,3-Trichlorobenzene	EPA 8260C	Low Level Polynuclear Aromatic Hydrocarb	oons
1,2,4,5-Tetrachlorobenzene	EPA 8270D		PA 8270D
1,2,4-Trichlorobenzene	EPA 8270D	아이 하게 되는 것이 되었다. 그는 그는 그들은 그들에게 그렇게 되었다면 하는 것이 되었다. 그는 그들은	PA 8270D
1-Chloronaphthalene	EPA 8270D	강이 그는 사람들은 사람들이 되었다면 하는데 가장 나를 다 되었다.	PA 8270D
2-Chloronaphthalene	EPA 8270D		PA 8270D
Hexachlorobenzene	EPA 8270D	그렇게 그 이렇게 하는 그리는 이 이렇게 살아 가장 이 얼마나 이 나는 사람이다.	PA 8270D
Hexachlorobutadiene	EPA 8270D	마음이 회교는 그 마음이 되는 날아야 들어서 이렇지 않을 때문에 걸어 먹었다.	PA 8270D
Hexachlorocyclopentadiene	EPA 8270D		PA 8270D
Hexachloroethane	EPA 8270D	회 등에 가는 그는 그는 맛있었습니까? 그렇게 하지 않는 그렇게 밝혀졌다.	PA 8270D
Hexachloropropene	EPA 8270D	그 요요 그는 사람들은 사람들이 살아보는 사람들이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	PA 8270D
Pentachlorobenzene	EPA 8270D	회사는 사람은 학문 및 동물과 그렇게 하는 회학 회사를 받는 것이 없다.	PA 8270D
Chlorophenoxy Acid Pesticides		그는 그 그는 그는 그 그 그 그 그 그 사람들이 없는 그를 받았다는 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	PA 8270D
2,4,5-T	EPA 8151A	Fluorene Low Level E	PA 8270D

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Low Level Polynuclear Aromatic Hyd	lrocarbons	Metals I	
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D	Silver, Total	EPA 6020A
Naphthalene Low Level	EPA 8270D	Sodium, Total	EPA 6010C
Phenanthrene Low Level	EPA 8270D	Strontium, Total	EPA 6010C
Pyrene Low Level	EPA 8270D	Metals II	
Metals I		Aluminum, Total	EPA 6010C
Barium, Total	EPA 6010C	Antimony, Total	EPA 6010C
	EPA 6020A		EPA 6020A
Cadmium, Total	EPA 6010C	Arsenic, Total	EPA 6010C
	EPA 6020A		EPA 6020A
Calcium, Total	EPA 6010C	Beryllium, Total	EPA 6010C
Chromium, Total	EPA 6010C		EPA 6020A
	EPA 6020A	Chromium VI	EPA 7199
Copper, Total	EPA 6010C	Lithium, Total	EPA 6010C
	EPA 6020A	Mercury, Total	EPA 7471B
Iron, Total	EPA 6010C	Selenium, Total	EPA 6010C
Lead, Total	EPA 6010C		EPA 6020A
	EPA 6020A	Vanadium, Total	EPA 6010C
Magnesium, Total	EPA 6010C		EPA 6020A
Manganese, Total	EPA 6010C	Zinc, Total	EPA 6010C
	EPA 6020A		EPA 6020A
Nickel, Total	EPA 6010C	Metals III	
	EPA 6020A	Cobalt, Total	EPA 6010C
Potassium, Total	EPA 6010C		EPA 6020A
Silver, Total	EPA 6010C	Molybdenum, Total	EPA 6010C

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Metals III		Nitroaromatics and Isophorone	
Molybdenum, Total	EPA 6020A	4-Dimethylaminoazobenzene	EPA 8270D
Silica, Dissolved	EPA 6010C	4-Nitroquinoline-1-oxide	EPA 8270D
Thallium, Total	EPA 6010C	Isophorone	EPA 8270D
	EPA 6020A	Nitrobenzene	EPA 8270D
Tin, Total	EPA 6010C	Pyridine	EPA 8270D
Titanium, Total	EPA 6010C	Nitrosoamines	
Minerals		N-Nitrosodiethylamine	EPA 8270D
Bromide	EPA 9056A	N-Nitrosodimethylamine	EPA 8270D
Chloride	EPA 9056A	N-Nitrosodi-n-butylamine	EPA 8270D
Fluoride, Total	EPA 9056A	N-Nitrosodi-n-propylamine	EPA 8270D
Sulfate (as SO4)	EPA 9056A	N-Nitrosodiphenylamine	EPA 8270D
Miscellaneous		N-nitrosomethylethylamine	EPA 8270D
Boron, Total	EPA 6010C	N-nitrosomorpholine	EPA 8270D
Cyanide, Total	EPA 9012B	N-nitrosopiperidine	EPA 8270D
Organic Carbon, Total	Lloyd Kahn Method	N-Nitrosopyrrolidine	EPA 8270D
Phenols	EPA 9066	Nutrients	
Sulfide (as S)	EPA 9034	Nitrate (as N)	EPA 9056A
Nitroaromatics and Isophorone		Nitrite (as N)	EPA 9056A
1,3,5-Trinitrobenzene	EPA 8270D	Organophosphate Pesticides	
1,3-Dinitrobenzene	EPA 8270D	Dimethoate	EPA 8270D
1,4-Naphthoquinone	EPA 8270D	Disulfoton	EPA 8270D
2,4-Dinitrotoluene	EPA 8270D	Famphur	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D	Parathion ethyl	EPA 8270D

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Organophosphate Pesticides		Polychlorinated Biphenyls	
Parathion methyl	EPA 8270D	Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Phorate	EPA 8270D	Aroclor 1254 (PCB-1254)	EPA 8082A
Sulfotepp	EPA 8270D	Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Thionazin	EPA 8270D	Aroclor 1260 (PCB-1260)	EPA 8082A
Petroleum Hydrocarbons		Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Diesel Range Organics	EPA 8015C	Aroclor 1262 (PCB-1262)	EPA 8082A
		Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Phthalate Esters		Aroclor 1268 (PCB-1268)	EPA 8082A
Benzyl butyl phthalate	EPA 8270D	Aroclor 1268 (PCB-1268) in Oil	EPA 8082A
Bis(2-ethylhexyl) phthalate	EPA 8270D	Polynuclear Aromatic Hydrocarbons	
Diethyl phthalate	EPA 8270D	2-Acetylaminofluorene	EPA 8270D
Dimethyl phthalate	EPA 8270D	[발발]	EPA 8270D
Di-n-butyl phthalate	EPA 8270D	3-Methylcholanthrene	
Di-n-octyl phthalate	EPA 8270D	7,12-Dimethylbenzyl (a) anthracene	EPA 8270D
Polychlorinated Biphenyls		Acenaphthene	EPA 8270D
Aroclor 1016 (PCB-1016)	EPA 8082A	Acenaphthylene	EPA 8270D
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A	Anthracene	EPA 8270D
		Benzo(a)anthracene	EPA 8270D
Aroclor 1221 (PCB-1221)	EPA 8082A	Benzo(a)pyrene	EPA 8270D
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A	Benzo(b)fluoranthene	EPA 8270D
Aroclor 1232 (PCB-1232)	EPA 8082A	Benzo(g,h,i)perylene	EPA 8270D
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A	Benzo(k)fluoranthene	EPA 8270D
Aroclor 1242 (PCB-1242)	EPA 8082A	Chrysene	EPA 8270D
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A	Dibenzo(a,h)anthracene	EPA 8270D
Aroclor 1248 (PCB-1248)	EPA 8082A	Fluoranthene	EPA 8270D
			_,,,,,,

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Polynuclear Aromatic Hydrocarbons		Semi-Volatile Organics	
Fluorene	EPA 8270D	1,1'-Biphenyl	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D	1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
Naphthalene	EPA 8270D	1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
Phenanthrene	EPA 8270D	1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
Pyrene	EPA 8270D	2-Methylnaphthalene	EPA 8270D
Priority Pollutant Phenols		2-Picoline	EPA 8270D
2,3,4,6 Tetrachlorophenol	EPA 8270D	4-Amino biphenyl	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D	Acetophenone	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D	Aramite	EPA 8270D
2,4-Dichlorophenol	EPA 8270D	Benzaldehyde	EPA 8270D
2,4-Dimethylphenol	EPA 8270D	Benzoic Acid	EPA 8270D
2,4-Dinitrophenol	EPA 8270D	Benzyl alcohol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D	Caprolactam	EPA 8270D
2-Chlorophenol	EPA 8270D	Dibenzofuran	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D	Ethyl methanesulfonate	EPA 8270D
2-Methylphenol	EPA 8270D	Isosafrole	EPA 8270D
2-Nitrophenol	EPA 8270D	Methyl methanesulfonate	EPA 8270D
3-Methylphenol	EPA 8270D	O,O,O-Triethyl phosphorothioate	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D	Phenacetin	EPA 8270D
4-Methylphenol	EPA 8270D	Safrole	EPA 8270D
4-Nitrophenol	EPA 8270D	Volatile Aromatics	
Pentachlorophenol	EPA 8270D	1,2,4-Trichlorobenzene, Volatile	EPA 8260C
Phenol	EPA 8270D	1,2,4-Trimethylbenzene	EPA 8260C
		1.2-Dichlorobenzene	EPA 8260C

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Volatile Aromatics		Volatile Halocarbons	
1,3,5-Trimethylbenzene	EPA 8260C	1,1,2,2-Tetrachloroethane	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C	1,1,2-Trichloroethane	EPA 8260C
2-Chlorotoluene	EPA 8260C	1,1-Dichloroethane	EPA 8260C
4-Chlorotoluene	EPA 8260C	1,1-Dichloroethene	EPA 8260C
Benzene	EPA 8260C	1,1-Dichloropropene	EPA 8260C
Bromobenzene	EPA 8260C	1,2,3-Trichloropropane	EPA 8260C
Chlorobenzene	EPA 8260C	1,2-Dibromo-3-chloropropane	EPA 8260C
Ethyl benzene	EPA 8260C	1,2-Dibromoethane	EPA 8260C
Isopropylbenzene	EPA 8260C	1,2-Dichloroethane	EPA 8260C
m/p-Xylenes	EPA 8260C	1,2-Dichloropropane	EPA 8260C
Naphthalene, Volatile	EPA 8260C	1,3-Dichloropropane	EPA 8260C
n-Butylbenzene	EPA 8260C	2,2-Dichloropropane	EPA 8260C
n-Propylbenzene	EPA 8260C	2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260C
o-Xylene	EPA 8260C	2-Chloroethylvinyl ether	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C	3-Chloropropene (Allyl chloride)	EPA 8260C
sec-Butylbenzene	EPA 8260C	Bromochloromethane	EPA 8260C
Styrene	EPA 8260C	Bromodichloromethane	EPA 8260C
tert-Butylbenzene	EPA 8260C	Bromoform	EPA 8260C
Toluene	EPA 8260C	Bromomethane	EPA 8260C
Total Xylenes	EPA 8260C	Carbon tetrachloride	EPA 8260C
Volatile Halocarbons		Chloroethane	EPA 8260C
1,1,1,2-Tetrachloroethane	EPA 8260C	Chloroform	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C	Chloromethane	EPA 8260C
			\$20 Jan 1980 1980 1980 1980 1980 1980 1980 1980

Serial No.: 64295





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

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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:

Volatile Halocarbons		Volatile Organics	
cis-1,2-Dichloroethene	EPA 8260C	Carbon Disulfide	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C	Cyclohexane	EPA 8260C
Dibromochloromethane	EPA 8260C	Di-ethyl ether	EPA 8260C
Dibromomethane	EPA 8260C	Ethylene Glycol	EPA 8015C
Dichlorodifluoromethane	EPA 8260C	Isobutyl alcohol	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C	Isopropanol	EPA 8260C
Methyl iodide	EPA 8260C	Methyl acetate	EPA 8260C
Methylene chloride	EPA 8260C	Methyl cyclohexane	EPA 8260C
Tetrachloroethene	EPA 8260C	Methyl tert-butyl ether	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C	n-Butanol	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C	o-Toluidine	EPA 8270D
trans-1,4-Dichloro-2-butene	EPA 8260C	Propionitrile	EPA 8260C
Trichloroethene	EPA 8260C	tert-butyl alcohol	EPA 8260C
Trichlorofluoromethane	EPA 8260C	Tetrahydrofuran	EPA 8260C
Vinyl chloride	EPA 8260C	Vinyl acetate	EPA 8260C
Volatile Organics		Sample Preparation Methods	
1,4-Dioxane	EPA 8260C		EPA 5035A-L
	EPA 8270D		EPA 5035A-H
2-Butanone (Methylethyl ketone)	EPA 8260C		EPA 3580A
2-Hexanone	EPA 8260C		EPA 9030B
2-Nitropropane	EPA 8260C		EPA 3050B
4-Methyl-2-Pentanone	EPA 8260C		EPA 3546
Acetone Acetone	EPA 8260C		EPA 3060A
Acetonitrile	EPA 8260C		EPA 3541

Serial No.: 64295





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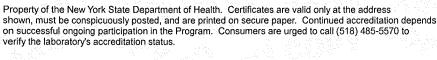
is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Miscellaneous

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

Serial No.: 64296

Page 1 of 1







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

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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

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

Serial No.: 66012





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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 SO4)	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

Serial No.: 66012





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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
Waladia Halasankana	

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

Serial No.: 66012





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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	

Serial No.: 66012





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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

Serial No.: 66013

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EPA 625.1



Pyridine



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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

Serial No.: 66013





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Chlorinated Hydrocarbon Pesticides

EPA 608.3	
EPA 8270D	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
EPA 8270D	
EPA 8270D	
EPA 8081B	
EPA 608.3	
EPA 8081B	
EPA 608.3	
	EPA 8270D EPA 8081B EPA 608.3 EPA 8270D EPA 8270D EPA 8270D EPA 8081B EPA 608.3 EPA 8081B

Serial No.: 66013





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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

Chlorophenoxy Acid Pesticides

Pentachlorobenzene

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

Serial No.: 66013

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FPA 8270D





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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)

EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

Serial No.: 66013

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Iron. Total



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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

Serial No.: 66013





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

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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

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:

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

Serial No.: 66013





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

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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

Serial No.: 66013





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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 SO4) 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)

Serial No.: 66013





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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** EPA 625.1 2,4-Dinitrotoluene **EPA 8270D**

EPA 625.1

2.6-Dinitrotoluene

EPA 8270D

4-Nitroquinoline-1-oxide **EPA 8270D** EPA 625.1 Isophorone

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** EPA 625.1 N-Nitrosodi-n-propylamine **EPA 8270D** N-Nitrosodiphenylamine EPA 625.1

Serial No.: 66013





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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)
	EDA 000 0 D 0.4 (4000)

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

Serial No.: 66013





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Polychlorinated Biphenyls

EPA 608.3
EPA 8082A
EPA 608.3
EPA 8082A
EPA 608.3
EPA 8082A
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

Serial No.: 66013

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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 PhenoIs		
2,3,4,6 Tetrachlorophenol	EPA 8270D	
2,4,5-Trichlorophenol	EPA 625.1	
	EPA 8270D	

Serial No.: 66013

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

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EPA 625.1

EPA 8270D

EPA 625.1 EPA 8270D

EPA 625.1 EPA 8270D 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

Serial No.: 66013





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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

Serial No.: 66013

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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

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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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EPA 8260C

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Volatile Halocarbons

1,2-Dichloro-1,1,2-Trifluoroethane

EPA 8260C
EPA 624.1
EPA 8260C
EPA 624.1
EPA 8260C
EPA 8260C
EPA 8260C
EPA 8260C
EPA 624.1
EPA 8260C
EPA 8260C
EPA 8260C
EPA 624.1
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

Serial No.: 66013





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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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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

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

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

Serial No.: 66013





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

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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

EPA 8081B
EPA 8081B
EPA 8270D
EPA 8081B
EPA 8081B
EPA 8270D
EPA 8081B
EPA 8270D
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

Metals I

Pyrene Low Level

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

Serial No.: 66014

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EPA 8270D





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Metals I

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	
	ED4 00004	

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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

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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 SO4)	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

EPA 8270D
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

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

Volatile Aromatics

Safrole

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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EPA 8270D





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All approved analytes are listed below:

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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All approved analytes are listed below:

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

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





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

NY Lab Id No: 10145

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

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





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

NY Lab Id No: 10145

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

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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.: 66015



American Premier Underwriters, Inc.

One East Fourth Street Cincinnari, Ohio 45202 Telephone (513) 579-6616 Facrimile (513) 579-0108

Michael L. Cloff Vice President and Assistant General Counses

May 25, 1995

. Effective June 1, 1995, L 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 dióffi

Vice President and Assistant General Counsel American Premier Underwriters, Inc.



Period: Annual Report for 2024

APPENDIX C

2Q24 Discharge Report

52 Federal Road, Suite 2C Danbury, CT 06810 Tele: (203) 205-9000 Fax: (203) 205-9011 www.unicorumgt.com



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.



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

Amal D'Co

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 7.20 pH Second Sample: 53.1 °F 0840 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 Michaelsen and Tobias Sisco



ANALYSIS SUMMARY TABLE QUARTERLY DISCHARGE SAMPLING EVENT

May 1, 2024

	ANALYTES							
DATE	Composite TIME	Ave. Temp °F	Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD	FLOW
BSA LIMITS				250 mg/L	100 mg/L	20 mg/L	65 mg/L	
			5 TO 12			0.25 LBS	0.83 LBS	NONE
5/1/2024	0915	13	7.31	ND U	ND U	ND U	ND U	1,178
MASS FOR SAMP	LE 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

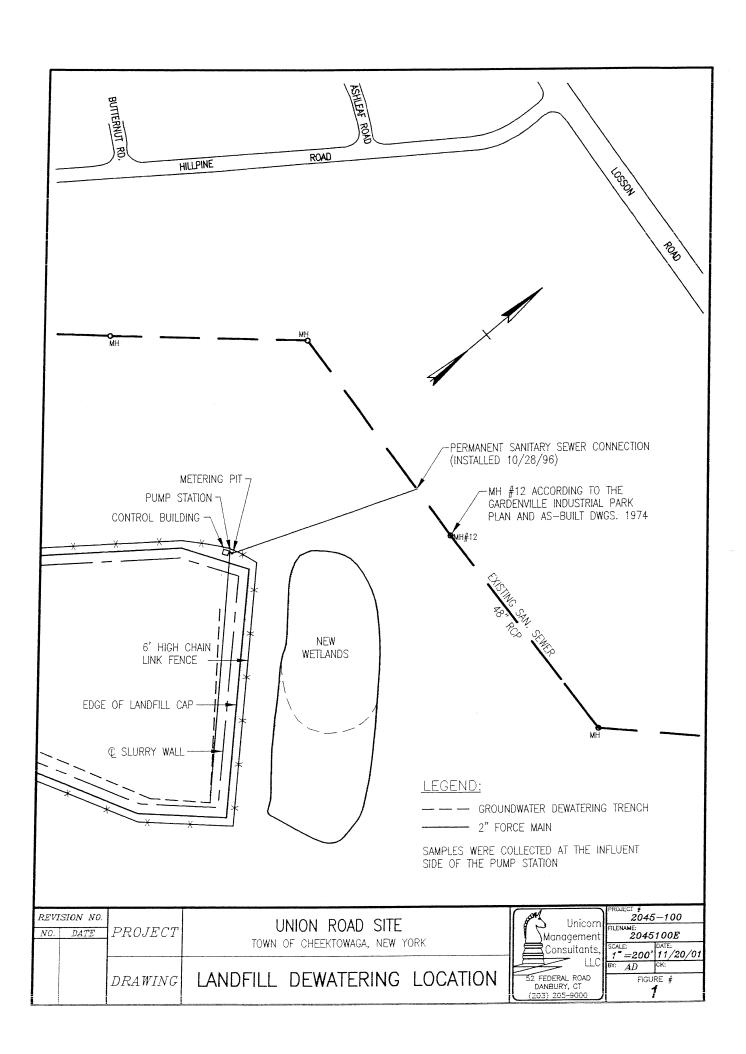
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q24	3/7/2024	173,601	7,643
2Q24	5/1/2024	188,976	15,375
		Yearly Total Gallons	23,018



Conversion Formula

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

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





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@alsqlobal.com.

Respectfully submitted,

Mighour Pedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



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 Service Request: R2403597

Project: Union Rd Date Received: 05/01/2024

Sample Matrix: Water

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.

	Mistran Pedro			
Approved by	0	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 Service Request:R2403597

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2403597-001
 2Q24 Effluent
 5/1/2024
 0915

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2 Custody	Custody papers properly completed (ink, signed)? (Y) N 5b Did VOA vials, Alk, or Sulfide have sig* bubbles? Y N NA														
Did all bottles arrive in good condition (unbroken)? Y N 6 Where did the bottles originate? ALS/ROC CLIENT															
4 Circle Wet Ice Dry Ice Gel packs present? Y N 7 Soil VOA received as: Bulk Encore 5035set NA															
3. Temperature Readings Date: 5/1/24 Time: 11:51 ID: IR#11 IR#11 From: Temp Blank Sample Bottle															
Observed T	emp (°C)	12.9													
Within 0-6°	C?	Y (N)			N		N	Y	N		N	Y N	Y	N	
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		orage location:			by —	oı	n	at -		within 4	8 hours o	of sampling?	Y	N	
Cooler Br	eakdown/Prese	rvation Check**	: Date	: <i>V</i>	5/11	24	Time:	12	14	by:	SE	Z,	·	_	
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BULK
FLDT
HGFB
LL3541

Labels secondary review	ved by: <u>SSS:</u>
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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



NI	ELAP States
Fl	orida ID # E87674
Ne	ew Hampshire ID # 2941
Ne	ew York ID # 10145
Pe	nnsylvania ID# 68-786
Vi	rginia #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 Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 BBOWE

6010C CDISTEFANO NMANSEN

SM 2540 D-2015 HCASTROVINCI

Printed 5/8/2024 4:27:47 PM



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)	3005A/3010A				
extract					
6010 SPLP (1312) extract	3005A/3010A				
7199	3060A				
300.0 Anions/ 350.1/	DI extraction				
353.2/ SM 2320B/ SM					
5210B/ 9056A Anions					
For analytical methods not listed, the preparation					
•	cal method				
For analytical methods not listed, the preparation method is the same as the analytical method reference					



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



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 **Date Collected:** 05/01/24 09:15

Sample Matrix: Water Date Received: 05/01/24 11:45

Sample Name: 2Q24 Effluent Basis: NA

Lab Code: R2403597-001

Inorganic Parameters

Analysis **Analyte Name** Method Result MRL Dil. **Date Analyzed Date Extracted** Units 6010C 05/03/24 20:54 Lead, Total ND U mg/L 0.0050 05/02/24

Service Request: R2403597



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

Service Request: R2403597 Union Rd/2011-100 **Date Collected:** 05/01/24 09:15 **Project:**

Date Received: 05/01/24 11:45 **Sample Matrix:** Water

Sample Name: 2Q24 Effluent Basis: NA

Lab Code: R2403597-001

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

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



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

Service Request: R2403597

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: Water

Date Received: NA

Sample Name:

Method Blank

Basis: NA

Lab Code:

R2403597-MB

Inorganic Parameters

Analysis

Analyte Name	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



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

> Union Rd/2011-100 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2403597-MB

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	

Service Request: R2403597

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 **Date Analyzed:** 05/02/24 - 05/06/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2403597

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 Date Analyzed: 05/03/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2403597

Lab Control Sample

Duplicate Lab Control Sample

R2403597-LCS1

R2403597-DLCS1

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Oil and Grease, Total (HEM)	1664B	33.1	41.5	80	35.2	41.6	85	78-114	6	18



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

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 200.8 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

Serial No.: 68402





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All approved analytes are listed below:

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

Metals III

Vanadium, Total

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	FPA 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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EPA 200.7 Rev. 4.4





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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 EPA 365.1 Rev. 2.0 Orthophosphate (as P) 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
Chloroform EPA 524.2
Dibromochloromethane EPA 524.2
Total Trihalomethanes EPA 524.2

Volatile Aromatics

1,2,3-TrichlorobenzeneEPA 524.21,2,4-TrichlorobenzeneEPA 524.21,2,4-TrimethylbenzeneEPA 524.21,2-DichlorobenzeneEPA 524.21,3,5-TrimethylbenzeneEPA 524.21,3-DichlorobenzeneEPA 524.2

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EPA 524.2

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:

Volatile Aromatics

1,4-Dichlorobenzene

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	

EPA 524.2

EPA 524.2 EPA 524.2

EPA 524.2

Serial No.: 68402

1,2,3-Trichloropropane

1,1-Dichloroethene1,1-Dichloropropene

1,2-Dichloroethane





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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

Serial No.: 68402





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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	

Serial No.: 68403

4-Chloroaniline

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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	

Serial No.: 68403





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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

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EPA 8081B



Dieldrin



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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 Endrin EPA 8081B EPA 608.3 Endrin Aldehyde EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B gamma-Chlordane EPA 8081B EPA 608.3 EPA 608.3 Heptachlor EPA 8081B EPA 608.3 EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270E Kepone EPA 8081B EPA 608.3 EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3	•		
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 8081B EPA 608.3 Isodrin EPA 8070D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Dieldrin	EPA 608.3	
Endosulfan II	Endosulfan I	EPA 8081B	
EPA 608.3 Endrin aldehyde EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 608.3 Endrin 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		EPA 608.3	
Endosulfan sulfate	Endosulfan II	EPA 8081B	
Endrin		EPA 608.3	
Endrin	Endosulfan sulfate	EPA 8081B	
EPA 608.3 Endrin aldehyde		EPA 608.3	
Endrin aldehyde	Endrin	EPA 8081B	
Endrin Ketone		EPA 608.3	
Endrin Ketone EPA 8081B gamma-Chlordane EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3	Endrin aldehyde	EPA 8081B	
gamma-Chlordane EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 8081B EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270D Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 8081B EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3		EPA 608.3	
EPA 608.3 Heptachlor EPA 8081B EPA 608.3 Heptachlor epoxide EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Endrin Ketone	EPA 8081B	
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	gamma-Chlordane	EPA 8081B	
EPA 608.3 Heptachlor epoxide EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3		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	Heptachlor	EPA 8081B	
EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3		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	Heptachlor epoxide	EPA 8081B	
EPA 8270E Kepone		EPA 608.3	
Kepone EPA 8270D EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Isodrin	EPA 8270D	
EPA 8270E Lindane		EPA 8270E	
Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Kepone	EPA 8270D	
EPA 608.3 Methoxychlor EPA 8081B EPA 608.3		EPA 8270E	
Methoxychlor EPA 8081B EPA 608.3	Lindane	EPA 8081B	
EPA 608.3		EPA 608.3	
	Methoxychlor	EPA 8081B	
Mirex EPA 8081B		EPA 608.3	
	Mirex	EPA 8081B	

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ROCHESTER, NY 14623

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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

Serial No.: 68403





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

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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	

Serial No.: 68403

Bis(2-chloroethyl)ether

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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	
	ED4 00-00	

Serial No.: 68403

Indeno(1,2,3-cd)pyrene Low Level

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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

Serial No.: 68403





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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

EPA 200.8, Rev. 5.4 (1994)

Iron, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

EPA 6010D

Lead, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Magnesium, Total 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

EPA 200.8, Rev. 5.4 (1994)

Nickel, Total EPA 200.7, Rev. 4.4 (1994)

Serial No.: 68403





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Metals I

Nickel, Total EPA 6010C

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

EPA 200.8, Rev. 5.4 (1994)

Sodium, Total 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

Serial No.: 68403





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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 EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Beryllium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

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 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

EPA 200.8, Rev. 5.4 (1994)

Tin, Total 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 SO4) 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	

Serial No.: 68403

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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

Serial No.: 68403





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Organophosphate Pesticides

Organophiosphate resticities		
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		

EPA 625.1 EPA 8270D EPA 8270E EPA 625.1

EPA 8270D

Serial No.: 68403

Benzyl butyl phthalate

Bis(2-ethylhexyl) phthalate





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Phthalate Esters

i illidiate 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	

Serial No.: 68403

Aroclor 1232 (PCB-1232)

Aroclor 1242 (PCB-1242)

Aroclor 1248 (PCB-1248)

Aroclor 1254 (PCB-1254)

Aroclor 1260 (PCB-1260)

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EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

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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	

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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	

Serial No.: 68403

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EPA 8270D





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

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:

Polynuclear Aromatics

. Orymadical 7 li dimatico		
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	

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EPA 8270E





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Priority Pollutant Phenols

EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
	EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 8270D EPA 8270D EPA 8270E EPA 8270D

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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

EPA 8270D 1,1'-Biphenyl EPA 8270E EPA 8270D 1,2-Dichlorobenzene, Semi-volatile **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**

Serial No.: 68403

Acetophenone

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EPA 8270E

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

Serial No.: 68403





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Semi-Volatile Organics

EPA 8270E	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
	EPA 8260D EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 624.1 EPA 8260D EPA 8260C EPA 8260D EPA 8260C EPA 8260D EPA 8260C EPA 8260D EPA 8260C EPA 8260D EPA 8260C EPA 8260C EPA 8260D EPA 8260C

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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	

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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

	EFA 6200C	
	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	

EPA 8260D

Serial No.: 68403

1,1-Dichloroethene





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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	

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Volatile Halocarbons

3-Chloropropene (Allyl chloride)	EPA 8260D	
	EPA 8260C	
Bromochloromethane	EPA 8260D	
	EPA 8260C	
Bromodichloromethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Bromoform	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Bromomethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Carbon tetrachloride	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloroethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloroform	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloromethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
cis-1,2-Dichloroethene	EPA 8260D	

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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

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Volatile Halocarbons

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 8260C

EPA 8270D

EPA 8270D SIM

EPA 8270E

EPA 8270E SIM

2-Butanone (Methylethyl ketone)

EPA 8260D

EPA 8260C

2-Hexanone

EPA 8260C

2-Nitropropane

EPA 8260C

4-Methyl-2-Pentanone

EPA 8260C

EPA 8260C

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	

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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

Serial No.: 68403

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EPA 8260D

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Acrylates

Acrolein (Propenal)

	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

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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	

Serial No.: 68404

Synthetic Precipitation Leaching Proc. EPA 1312

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EPA 9045D

EPA 9095B

EPA 1311



Free Liquids

TCLP



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

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

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

Serial No.: 68404





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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

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	

EPA 8270D

Serial No.: 68404

Hexachloropropene





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EPA 8151A

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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

Haloethers

Pentachlorophenol

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
	FPA 8270F

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
	EPA 8270E
Acenaphthylene Low Level	EPA 8270D

Serial No.: 68404





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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

Serial No.: 68404





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Low Level Polynuclear Aro	matic 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	

Serial No.: 68404

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EPA 6020A





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Metals I

Nickel, Total	EPA 6010C	
Trionol, Total	EPA 6010D	
	EPA 6020A	
Potassium, Total	EPA 6010C	
r otacolam, rotar	EPA 6010D	
Silver, Total	EPA 6010C	
Onvoi, rotai	EPA 6010D	
	EPA 6020A	
Sodium, Total	EPA 6010C	
Sociali, Iolai	EPA 6010D	
Strontium, Total	EPA 6010C	
Strontium, Total	EPA 6010D	
	EFA 00 10D	
Metals II		
Aluminum, Total	EPA 6010C	
	EPA 6010D	
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	

Serial No.: 68404

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EPA 6010D





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EPA 7471B

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Metals II

Mercury, Total

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
oodan, rotar	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

Serial No.: 68404





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Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	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	

EPA 8270D

N-Nitrosodi-n-butylamine **EPA 8270E** N-Nitrosodi-n-propylamine **EPA 8270D** EPA 8270E

EPA 8270D N-Nitrosodiphenylamine **EPA 8270E**

EPA 8270D N-nitrosomethylethylamine **EPA 8270E** EPA 8270D N-nitrosomorpholine

EPA 8270E **EPA 8270D** N-nitrosopiperidine EPA 8270E EPA 8270D

Nutrients

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

Serial No.: 68404

N-Nitrosopyrrolidine





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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

Serial No.: 68404

Bis(2-ethylhexyl) phthalate

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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

Serial No.: 68404





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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	

Serial No.: 68404

2-Chlorophenol

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EPA 8270E

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	

Serial No.: 68404

1,3-Dichlorobenzene, Semi-volatile

1,4-Dichlorobenzene, Semi-volatile

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EPA 8270D EPA 8270E

EPA 8270D





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Semi-Volatile Organics

John Tolatilo Organico		
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	

Serial No.: 68404





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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EPA 8270D

EPA 8260D

EPA 8260C

EPA 8260D EPA 8260C EPA 8260D

EPA 8260C EPA 8260D

EPA 8260C

EPA 8260D EPA 8260C

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate

	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	

Serial No.: 68404

1.4-Dichlorobenzene

2-Chlorotoluene

4-Chlorotoluene

Bromobenzene

Benzene





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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

Totalilo / Il omalioo		
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	

Serial No.: 68404

Trichlorofluoromethane

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EPA 8260D





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EPA 8260C

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Volatile Halocarbons Trichlorofluoromethane

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

EPA 8260D EPA 8260C

EPA 8260D EPA 8260C

EPA 8015C

Serial No.: 68404

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Cyclohexane

Di-ethyl ether

Ethylene Glycol



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Volatile Organics

voiatile 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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Sample Preparation Methods

EPA 3050B

EPA 3546

EPA 3060A

EPA 3541



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Miscellaneous

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



Serial No.: 68405



American Premier Underwriters, Inc.

One East Fourth Street Cincinnari, Ohio 45202 Telephone (513) 579-6616 Facrimile (513) 579-0108

Michael L. Cloff Vice President and Assistant General Counses

May 25, 1995

. Effective June 1, 1995, L 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 dióffi

Vice President and Assistant General Counsel American Premier Underwriters, Inc.



APPENDIX C

3Q24 Discharge Report

52 Federal Road, Suite 2C Danbury, CT 06810 Tele: (203) 205-9000 Fax: (203) 205-9011 www.unicornmgt.com



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.

Responsiveness • Solutions • Quality



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

w/hl / /m

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: 55.36 °F 6.96 pH 0815 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

<u>ANALYTES</u>									
DATE	Composite TIME	Ave. Temp	Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD Total	LEAD Dissolved	FLOW
BSA LIMITS			•	250 mg/L	100 mg/L	20 mg/L	65 mg/L	ug/L	
			5 TO 12			0.25 LBS	0.83 LBS		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 SAME	PLE 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 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

Dissolved Lead = 50 ug/L



2024 Discharge Summary

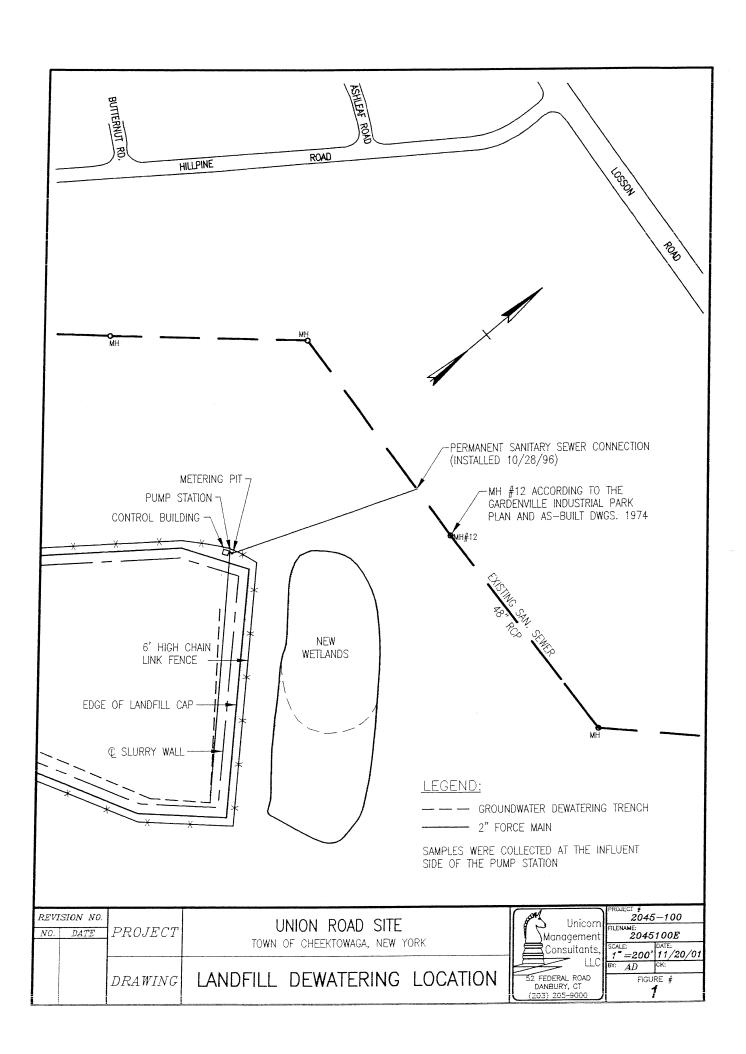
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q24	3/7/2024	173,601	7,643
2Q24	5/1/2024	188,976	15,375
3Q24	8/20/2024	214,185	25,209
		Yearly Total Gallons	48,227



Conversion Formula

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

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





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@alsqlobal.com.

Respectfully submitted,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



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 Service Request: R2407937

Project: Union Rd Date Received: 08/20/2024

Sample Matrix: Water

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.

	Michrae Pedio		
Approved by	U	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 Service Request:R2407937

Project: Union Rd/2011-200

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>HME</u>
R2407937-001	3Q24 Effluent	8/20/2024	0915
R2407937-002	3Q24 Effluent Diss	8/20/2024	0915

Λ
(ALS)

Distribution: White - Lab Copy; Yellow - Return to Originator

Chain of Custody / Analytical Request Form

74309					SR	R#:							
glo	bal.					Pag	ge _	1					
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Cooler Receipt and Preservation Check Form

Project/ClientFolder Number										
Cooler received on \$190/2 by: (1) by: (2) COURIER: ALS UPS FEDEX VELOCITY CHENT										
1 Were Custody seals on outside of cooler? Y O 5a Did VOA vials have sig* bubbles? Y N (A-)										
2 Custody papers properly completed (ink, signed)? ON 5b Sig* bubbles: Alk? Y N NA Sulfide? Y N NA										
3 Did all bottles arrive in good condition (unbroken)? N 6 Where did the bottles originate? ALS/ROC CLIENT										
4 Circle: Wet Ice Dry Ice Gel packs present? N 7 Soil VOA received as: Bulk Encore 5035set NA										
8. Temperature Readings Date: \$\frac{120}{2012}\$ Time: \frac{1740}{1740} ID: IR#12 \(\begin{align*} IR#12 \(\begin										
Temp (°C)		3.0	1							
Within 0-6°C?		(Y) N		Y N	YN	Y	N Y	N	YN	YN
If <0°C, were	samples froz	zen? Y N		Y N	Y N	Y	N Y	N	Y N	YN
If out of Ter	mperature,	note packing/ic	e conditi	ion:	Ice mei	ted P	oorly Packed (described b	elow) Sai	ne Day Rule
&Client Ap	proval to R	lun Samples:		Standing A	Approval Clien	t aware	at drop-off (Client notifie		•
All samples he	eld in storac	re location:	12 21	z by R	21 on 8/2	ckat i	ועור	 : :-		
		orage location:	na	by by	on on	at	····ithin	40 ha £		/ N
						``-	willin	48 hours of	sampling?	N
Cooler Presi	rdoum/Dros	ervation Check**	. Detai	ତ । ଧ	12(1 =	120	<u> </u>	90 O		
		labels complete				132	ES), NO	<u> 3E S</u>	· *	
10. Did	i all bottle la	bels and tags agr	ee with c	ustody par	pers?	X	ES, NO			
11. We	re correct co	ontainers used for	r the tests	indicated	?	8	ES NO			
		s acceptable (no			king)?			V/A)		
		metals filtered in					ES NO	√A		· ·
	_ot of test	Cassettes / Tubes Reagent	Preserve		1S Y / N Canis Received			Fedlar® Bag		A)
1.	paper——	Reagent	<u> </u>	No Lot	Received	Exp	Sample ID Adjusted	Vol.	Lot Added	Final
≥12	<i>X</i>	-							I	pΗ
1 = 14	_	NaOH	1 1			† · · ·		1		
	A1523	NaOH HNO ₃			the label	B		· ·		
≤2β≤2	21523			190	He lavel	7/26		-		
	23	HNO ₃		90		7/26				
≤2 β <2 <4 <5-9	31523	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest	V	No=	Notify for 3day	7/240				
≤2 8/ ≤2 <4 5-9 Residual	31523	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN ₂		No=	Notify for 3day	7/26				
≤2 /2 <2 <4 5-9 Residual Chlorine	31723	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 225,	✓✓	No=:	Notify for 3day contact PM to add 2O3 (625, 608,	7/240				
≤2 8/ ≤2 <4 5-9 Residual	31523	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 625, 608pest, 522	√	No=:	Notify for 3day	7/2/0				
≤2 /2 <2 <4 5-9 Residual Chlorine	31523	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 625, 608pest, 522 Na ₂ S ₂ O ₃	✓	No=:	Notify for 3day contact PM to add 2O3 (625, 608,	7/240				
≤2 /2 <2 <4 5-9 Residual Chlorine	31523	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 825, 608pest, 522 Na ₂ S ₂ O ₃ ZnAcetate	√ √	No=:	Notify for 3day contact PM to add 2O3 (625, 608,	7/140	**VOAs and 16	64 Not to be te	sted before analys	is.
 ≤2 ≤2 <4 5-9 Residual Chlorine 	31523	HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 625, 608pest, 522 Na ₂ S ₂ O ₃	√ √	No= If+, Na ₂ S CN),	Notify for 3day contact PM to add 2O3 (625, 608,	7/2/0	**VOAs and 16	64 Not to be te	nples with chemica	is.
 ≤2 ≤2 <4 5-9 Residual Chlorine 		HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 825, 608pest, 522 Na ₂ S ₂ O ₃ ZnAcetate HCl	√ √	No= If+, Na ₂ S CN),	Notify for 3day contact PM to add 2O ₃ (625, 608, ascorbic (phenol).	7/26	**VOAs and 16 Otherwise, all be are checked (no	64 Not to be te ottles of all san i just represent	nples with chemica	al preservatives

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES-

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

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r21.doc

05/17/2024



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



NEI	AP States
Flori	da ID # E87674
New	Hampshire ID # 2941
New	York ID # 10145
Penr	sylvania ID# 68-786
Virg	inia #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.

-		
Page	П	of 28

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
 Date Collected: 08/20/24

 Lab Code:
 R2407937-001
 Date Received: 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

 1664B
 SZOGBY

 420.4
 CWOODS

6010D CDISTEFANO ECASTROVINCI

SM 2540 D-2015 HCASTROVINCI

 Sample Name:
 3Q24 Effluent Diss
 Date Collected:
 08/20/24

 Lab Code:
 R2407937-002
 Date Received:
 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

6010D CDISTEFANO ECASTROVINCI

Sample Name: MW-10D Date Collected: 08/20/24

Lab Code: R2407937-003 Date Received: 08/20/24 Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B 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	SM 4500-CN-G and
Amenable and Residual	SM 4500-CN-B,C-2016
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

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



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

R2407937-001

Lab Code:

Project: Union Rd/2011-200 **Date Collected:** 08/20/24 09:15

Sample Matrix: Water Date Received: 08/20/24 17:20

Sample Name: 3Q24 Effluent Basis: NA

Inorganic Parameters

Analysis **Analyte Name** Method Result Units MRL Dil. **Date Analyzed Date Extracted** 6010D 08/23/24 17:46 Lead, Total 0.0050 U mg/L 0.0050 08/22/24

Service Request: R2407937

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

R2407937-002

Lab Code:

Service Request: R2407937 **Date Collected:** 08/20/24 09:15 **Project:** Union Rd/2011-200

Date Received: 08/20/24 17:20 **Sample Matrix:** Water

Sample Name: 3Q24 Effluent Diss Basis: NA

Inorganic Parameters

Analysis **Analyte Name** Method Result MRL Dil. **Date Analyzed Date Extracted** Units Lead, Dissolved 6010D 08/23/24 17:50 50 U ug/L 50 08/22/24



General Chemistry

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 Union Rd/2011-200 **Date Collected:** 08/20/24 09:15 **Project:**

Date Received: 08/20/24 17:20 **Sample Matrix:** Water

Sample Name: 3Q24 Effluent Basis: NA

Lab Code: R2407937-001

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

Service Request: R2407937 Date Collected: NA Union Rd/2011-200

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2407937-MB

Inorganic Parameters

Analysis

Analyte Name	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 Date Analyzed: 08/23/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

> Units:ug/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS

R2407937-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	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 Date Analyzed: 08/23/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS

R2407937-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	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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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 Union Rd/2011-200 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2407937-MB

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 **Date Analyzed:** 08/26/24 - 08/27/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2407937

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



Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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

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 200.8 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

Serial No.: 68402



American Premier Underwriters, Inc.

One East Fourth Street Cincinnari, Ohio 45202 Telephone (513) 579-6616 Facrimile (513) 579-0108

Michael L. Cloff Vice President and Assistant General Counses

May 25, 1995

. Effective June 1, 1995, L 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 dióffi

Vice President and Assistant General Counsel American Premier Underwriters, Inc.



Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

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:

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

Metals III

Vanadium, Total

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	FPA 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)

Serial No.: 68402

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EPA 200.7 Rev. 4.4





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

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:

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 EPA 365.1 Rev. 2.0 Orthophosphate (as P) 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
Chloroform EPA 524.2
Dibromochloromethane EPA 524.2
Total Trihalomethanes EPA 524.2

Volatile Aromatics

1,2,3-TrichlorobenzeneEPA 524.21,2,4-TrichlorobenzeneEPA 524.21,2,4-TrimethylbenzeneEPA 524.21,2-DichlorobenzeneEPA 524.21,3,5-TrimethylbenzeneEPA 524.21,3-DichlorobenzeneEPA 524.2

Serial No.: 68402





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EPA 524.2

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Volatile Aromatics

1,4-Dichlorobenzene

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	

EPA 524.2

EPA 524.2 EPA 524.2

EPA 524.2

Serial No.: 68402

1,2,3-Trichloropropane

1,1-Dichloroethene1,1-Dichloropropene

1,2-Dichloroethane





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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

Serial No.: 68402





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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	

Serial No.: 68403

4-Chloroaniline

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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	

Serial No.: 68403





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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

Serial No.: 68403

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EPA 8081B



Dieldrin



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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 Endrin EPA 8081B EPA 608.3 Endrin Aldehyde EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B gamma-Chlordane EPA 8081B EPA 608.3 EPA 608.3 Heptachlor EPA 8081B EPA 608.3 EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270E Kepone EPA 8081B EPA 608.3 EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3	•		
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 8081B EPA 608.3 Isodrin EPA 8070D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Dieldrin	EPA 608.3	
Endosulfan II	Endosulfan I	EPA 8081B	
EPA 608.3 Endrin aldehyde EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 608.3 Endrin EPA 8081B EPA 608.3 Heptachlor EPA 8081B EPA 608.3 Heptachlor 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		EPA 608.3	
Endosulfan sulfate	Endosulfan II	EPA 8081B	
Endrin		EPA 608.3	
Endrin	Endosulfan sulfate	EPA 8081B	
EPA 608.3 Endrin aldehyde		EPA 608.3	
Endrin aldehyde	Endrin	EPA 8081B	
Endrin Ketone		EPA 608.3	
Endrin Ketone EPA 8081B gamma-Chlordane EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3	Endrin aldehyde	EPA 8081B	
gamma-Chlordane EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 8081B EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270D Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 8081B EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3		EPA 608.3	
EPA 608.3 Heptachlor EPA 8081B EPA 608.3 Heptachlor epoxide EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Endrin Ketone	EPA 8081B	
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	gamma-Chlordane	EPA 8081B	
EPA 608.3 Heptachlor epoxide EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3		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	Heptachlor	EPA 8081B	
EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3		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	Heptachlor epoxide	EPA 8081B	
EPA 8270E Kepone		EPA 608.3	
Kepone EPA 8270D EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Isodrin	EPA 8270D	
EPA 8270E Lindane		EPA 8270E	
Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Kepone	EPA 8270D	
EPA 608.3 Methoxychlor EPA 8081B EPA 608.3		EPA 8270E	
Methoxychlor EPA 8081B EPA 608.3	Lindane	EPA 8081B	
EPA 608.3		EPA 608.3	
	Methoxychlor	EPA 8081B	
Mirex EPA 8081B		EPA 608.3	
	Mirex	EPA 8081B	

Serial No.: 68403





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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	

Serial No.: 68403

Bis(2-chloroethyl)ether

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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	
	ED4 00-00	

Serial No.: 68403

Indeno(1,2,3-cd)pyrene Low Level

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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

EPA 200.8, Rev. 5.4 (1994)

Iron, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

EPA 6010D

Lead, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Magnesium, Total 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

EPA 200.8, Rev. 5.4 (1994)

Nickel, Total EPA 200.7, Rev. 4.4 (1994)

Serial No.: 68403





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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ALS ENVIRONMENTAL - ROCHESTER
1565 JEFFERSON ROAD BUILDING 300, SUITE 360
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Metals I

Nickel, Total EPA 6010C

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

EPA 200.8, Rev. 5.4 (1994)

Sodium, Total 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

Serial No.: 68403





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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 EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Beryllium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

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 6010D EPA 6020A

Serial No.: 68403





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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

EPA 200.8, Rev. 5.4 (1994)

Tin, Total 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 SO4) EPA 300.0, Rev. 2.1 (1993)

EPA 9056A

Serial No.: 68403





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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

Serial No.: 68403





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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	

Serial No.: 68403

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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

Serial No.: 68403





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Organophosphate Pesticides

Organophiosphate resticities		
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		

EPA 625.1 EPA 8270D EPA 8270E EPA 625.1

EPA 8270D

Serial No.: 68403

Benzyl butyl phthalate

Bis(2-ethylhexyl) phthalate





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Phthalate Esters

i illialate 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	

Serial No.: 68403

Aroclor 1232 (PCB-1232)

Aroclor 1242 (PCB-1242)

Aroclor 1248 (PCB-1248)

Aroclor 1254 (PCB-1254)

Aroclor 1260 (PCB-1260)

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EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

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	

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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	

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Polynuclear Aromatics

. Orymadical 7 li dimatico		
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	

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Priority Pollutant Phenols

EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 8270D	
EPA 8270E	
EPA 625.1	
EPA 8270D	
EPA 8270E	
EPA 625.1	
	EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 625.1 EPA 8270D EPA 8270E EPA 8270D EPA 8270D EPA 8270E EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D EPA 8270D

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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

EPA 8270D 1,1'-Biphenyl EPA 8270E EPA 8270D 1,2-Dichlorobenzene, Semi-volatile **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**

Serial No.: 68403

Acetophenone

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EPA 8270E

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

Serial No.: 68403





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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

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:

Semi-Volatile Organics

EPA 8270E	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
	EPA 8260D EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 624.1 EPA 8260D EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260D EPA 8260C EPA 8260D EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260D EPA 8260C EPA 8260D EPA 8260C EPA 8260C EPA 8260D EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C

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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	

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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

	EFA 6200C	
	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	

EPA 8260D

Serial No.: 68403

1,1-Dichloroethene





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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	

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Volatile Halocarbons

3-Chloropropene (Allyl chloride)	EPA 8260D	
	EPA 8260C	
Bromochloromethane	EPA 8260D	
	EPA 8260C	
Bromodichloromethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Bromoform	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Bromomethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Carbon tetrachloride	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloroethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloroform	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloromethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
cis-1,2-Dichloroethene	EPA 8260D	

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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

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Volatile Halocarbons

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 8260C

EPA 8270D

EPA 8270D SIM

EPA 8270E

EPA 8270E SIM

2-Butanone (Methylethyl ketone)

EPA 8260D

EPA 8260C

2-Hexanone

EPA 8260C

2-Nitropropane

EPA 8260C

4-Methyl-2-Pentanone

EPA 8260C

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	

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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

Serial No.: 68403

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EPA 8260D

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Acrylates

Acrolein (Propenal)

	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

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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	

Serial No.: 68404

Synthetic Precipitation Leaching Proc. EPA 1312

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EPA 9045D

EPA 9095B

EPA 1311



Free Liquids

TCLP



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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

Serial No.: 68404





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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

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	

EPA 8270D

Serial No.: 68404

Hexachloropropene





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EPA 8151A

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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

Haloethers

Pentachlorophenol

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
	FPA 8270F

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

Serial No.: 68404





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

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

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Low Level Polynuclear Aro	matic 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	

Serial No.: 68404

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EPA 6020A





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Metals I

Nickel, Total	EPA 6010C	
Trionol, Total	EPA 6010D	
	EPA 6020A	
Potassium, Total	EPA 6010C	
r otacolam, rotar	EPA 6010D	
Silver, Total	EPA 6010C	
Onvoi, rotai	EPA 6010D	
	EPA 6020A	
Sodium, Total	EPA 6010C	
Jodium, Total	EPA 6010D	
Strontium, Total	EPA 6010C	
Strontium, Total	EPA 6010D	
	EFA 00 10D	
Metals II		
Aluminum, Total	EPA 6010C	
	EPA 6010D	
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	

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EPA 6010D





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EPA 7471B

EPA 6010C

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Metals II

Mercury, Total

Selenium, Total

Coloriidini, Total	217100100
	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

Serial No.: 68404





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Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	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

Serial No.: 68404





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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	

EPA 8270D

N-Nitrosodi-n-butylamine **EPA 8270E** N-Nitrosodi-n-propylamine **EPA 8270D** EPA 8270E

EPA 8270D N-Nitrosodiphenylamine **EPA 8270E**

EPA 8270D N-nitrosomethylethylamine **EPA 8270E** EPA 8270D N-nitrosomorpholine

EPA 8270E **EPA 8270D** N-nitrosopiperidine EPA 8270E EPA 8270D

Nutrients

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

Serial No.: 68404

N-Nitrosopyrrolidine





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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

Serial No.: 68404

Bis(2-ethylhexyl) phthalate

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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

Serial No.: 68404





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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	

Serial No.: 68404





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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 PhenoIs		
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	

Serial No.: 68404

2-Chlorophenol

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EPA 8270E

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	

Serial No.: 68404

1,3-Dichlorobenzene, Semi-volatile

1,4-Dichlorobenzene, Semi-volatile

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EPA 8270D EPA 8270E

EPA 8270D





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Semi-Volatile Organics

EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
EPA 8270D		
EPA 8270E		
	EPA 8270D EPA 8270D	EPA 8270D EPA 8270E EPA 8270D EPA 8270E EPA 8270D

Serial No.: 68404





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EPA 8270D

EPA 8260D

EPA 8260C

EPA 8260D EPA 8260C EPA 8260D

EPA 8260C EPA 8260D

EPA 8260C

EPA 8260D EPA 8260C

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate

	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	

Serial No.: 68404

1.4-Dichlorobenzene

2-Chlorotoluene

4-Chlorotoluene

Bromobenzene

Benzene





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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

Totalilo / II ottlatioo		
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	

Serial No.: 68404





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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

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





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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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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

EPA 8260D

Serial No.: 68404

Trichlorofluoromethane





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EPA 8260C

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Volatile Halocarbons Trichlorofluoromethane

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

EPA 8260D EPA 8260C

EPA 8260D EPA 8260C

EPA 8015C

Serial No.: 68404

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Cyclohexane

Di-ethyl ether

Ethylene Glycol



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Volatile Organics

voiatile 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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Sample Preparation Methods

EPA 3050B

EPA 3546

EPA 3060A

EPA 3541



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Miscellaneous

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



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American Premier Underwriters, Inc.

One East Fourth Street Cincinnari, Ohio 45202 Telephone (513) 579-6616 Facrimile (513) 579-0108

Michael L. Cloff Vice President and Assistant General Counses

May 25, 1995

. Effective June 1, 1995, L 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 dióffi

Vice President and Assistant General Counsel American Premier Underwriters, Inc.



Period: Annual Report for 2024

APPENDIX C

4Q24 Discharge Report

52 Federal Road, Suite 2C Danbury, CT 06810 Tele: (203) 205-9000 Fax: (203) 205-9011 www.unicornmgt.com



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.



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)



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,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2411752

Project: Union Rd Date Received: 11/14/2024

Sample Matrix: Water

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.

	Michael Pedro			
Approved by	\mathcal{O}	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

Client: Unicorn Management Consultants Service Request:R2411752

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2411752-001
 4Q24 Effluent
 11/14/2024
 0920

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11
(ALS)

Chain of Custody / Analytical Request Form

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Cooler Receipt and Preservation Check Form

Project/Client				Folder Number		rjir se a je				:•
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1 Were Custody seals or	outside of coole	a ?		Y) N 5a Did V	OA via	ls have sig* bu	bbles?		Y	N (NA)
2 Custody papers prope	rly completed (in	k, sign	ed)? (Y N 5b 'Sig* b	ubbles:	Alk? Y	N (NA)	Sulfide?	Y	N NA
3 Did all bottles arrive in	good condition	(unbrol	. 1	~~	did the	bottles origina	te? /	ALS/ROC)	CLIE	NT
4 Circle: Wet Ide Dry	Ice Gel packs	pres	ent?	YN 7 Soil V	OA rec	cived as: B	ulk Enc	ore 5035	Set (1	(A)
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&Client Approval to F				ding Approval Client		• •				
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9. Were all bottle 10. Did all bottle la 11. Were correct c 12. Were 5035 via 13. Were dissolved 14. Air Samples: (pH Lot of test paper ≥12 ≤2 <4	labels complete (abels and tags agrontainers used for its acceptable (no it metals filtered it cassettes / Tubes Reagent NaOH HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 625,	(i.e. ana ree with r the tes extra la n the fic Intact \(\frac{1}{2}\)	alysis, a custo sts ind abels, a eld? (/N	preservation, etc.)? dy papers? icated? not leaking)? with MS Y / N Canis Lot Received	ters Pre	TES NO TES NO TES NO TES NO N TES NO N TES NO N TES NO N TES Sample ID	Zamp Za Za Za Za Za Za Za Za Za Za Za Za Za	s Inflated	N/A) Final
9. Were all bottle 10. Did all bottle le 11. Were correct c 12. Were 5035 via 13. Were dissolved 14. Air Samples: € pH	labels complete (abels and tags agrontainers used for its acceptable (no it metals filtered it cassettes / Tubes Reagent NaOH HNO ₃ H ₂ SO ₄ NaHSO ₄ For 608pest For CN,	(i.e. ana ree with r the tes extra la n the fic Intact \(\frac{1}{2}\)	alysis, a custo sts ind abels, a eld? (/N	preservation, etc.)? dy papers? icated? not leaking)? with MS Y / N Canis Lot Received No=Notify for 3day If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608,	ters Pre	TES NO TES NO TES NO TES NO N TES NO N TES NO N TES NO N TES Sample ID	Zamp Za Za Za Za Za Za Za Za Za Za Za Za Za	s Inflated	N/A) Final
9. Were all bottle 10. Did all bottle le 11. Were correct c 12. Were 5035 via 13. Were dissolved 14. Air Samples: € pH	labels complete (abels and tags agrontamers used for its acceptable (no it metals filtered it cassettes / Tubes Reagent NaOH HNO3 H ₂ SO ₄ NaHSO ₄ For 608pest For CN, Phenol, 525, 608pest, 522	(i.e. ana ree with r the tes extra la n the fic Intact \(\frac{1}{2}\)	alysis, a custo sts ind abels, a eld? (/N	preservation, etc.)? dy papers? icated? not leaking)? with MS Y / N Canis Lot Received No=Notify for 3day If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608,	ters Pre	VES NO VES NO VES NO VES NO NO VES NO NO SSURIZED Adjusted	A Not to be to	s Inflated Lot Adde	N/A	Final pH
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HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	. LL3541

Labels secondary reviewed by:

Explain all Discrepancies/ Other Comments:

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



Miscellaneous Forms



REPORT QUALIFIERS AND DEFINITIONS

- 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.
- 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/Arclors).
- Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- Ε Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- 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.
- Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- Spike was diluted out.

P:\INTRANET\QAQC\Forms Controlled\QUALIF_routine rev 8.doc

- +Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- Ν Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- Concentration >40% difference between the two P GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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

 Sample Name:
 4Q24 Effluent
 Date Collected: 11/14/24

 Lab Code:
 R2411752-001
 Date Received: 11/14/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 CWOODS

6010D CDISTEFANO NMANSEN

SM 2540 D-2015 HCASTROVINCI

Service Request: R2411752

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	SM 4500-CN-G and
Amenable and Residual	SM 4500-CN-B,C-2016
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

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



Metals

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752 **Date Collected:** 11/14/24 09:20 **Project:** Union Rd/2011-100

Date Received: 11/14/24 16:35 **Sample Matrix:** Water

Sample Name: 4Q24 Effluent Basis: NA

Lab Code: R2411752-001

Inorganic Parameters

Analysis

Analyte Name	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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752 Union Rd/2011-100 **Date Collected:** 11/14/24 09:20 **Project:**

Date Received: 11/14/24 16:35 **Sample Matrix:** Water

Sample Name: 4Q24 Effluent Basis: NA

Lab Code: R2411752-001

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



Metals

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: V

Water Date Received: NA

Sample Name:

Lab Code:

Method Blank R2411752-MB Basis: NA

Inorganic Parameters

Analysis

Analyte Name	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	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 Date Analyzed: 11/19/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

> Units:mg/L Basis:NA

Service Request: R2411752

Lab Control Sample

Duplicate Lab Control Sample

R2411752-LCS

R2411752-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Lead, Total	6010D	0.514	0.500	103	0.516	0.500	103	80-120	<1	20



General Chemistry

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752 Union Rd/2011-100 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2411752-MB

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 Date Analyzed: 11/19/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2411752

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 **Date Analyzed:** 11/20/24 - 11/26/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2411752

Lab Control Sample

Duplicate Lab Control Sample

R2411752-LCS1

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: 52.70 °F 6.84 pH 1145 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

	<u>ANALYTES</u>												
DATE	Composite TIME	Ave. Temp °F	Average pH	TSS	Total Extractable Hydrocarbons	PHENOLS	LEAD Total	FLOW					
BSA LIMITS				250 mg/L	100 mg/L	20 mg/L	65 mg/L						
			5 TO 12			0.25 LBS	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 SAM	PLE 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

 $\begin{array}{lll} \mbox{Total Phenols} = & 0.005 & \mbox{mg/L} \\ \mbox{Total Lead} = & 0.005 & \mbox{mg/L} \end{array}$



2024 Discharge Summary

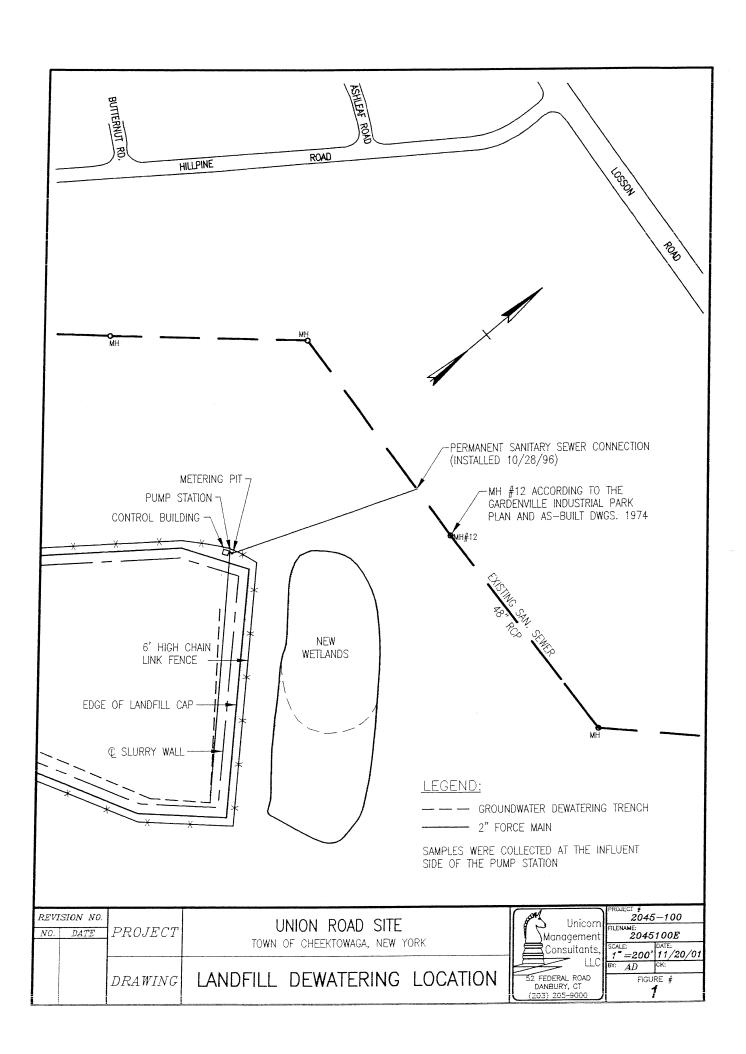
Quarter	Date	Total Gallons Pumped (Totalizer)	Gallons Pumped per Quarter
1Q24	3/7/2024	173,601	7,643
2Q24	5/1/2024	188,976	15,375
3Q24	8/20/2024	214,185	25,209
4Q24	11/14/2024	229.400	15,215
		Yearly Total Gallons	63,442



Conversion Formula

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

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





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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

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 200.8 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

Serial No.: 68402





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All approved analytes are listed below:

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

Metals III

Vanadium, Total

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	FPA 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)

Serial No.: 68402

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.

EPA 200.7 Rev. 4.4





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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 EPA 365.1 Rev. 2.0 Orthophosphate (as P) 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
Chloroform EPA 524.2
Dibromochloromethane EPA 524.2
Total Trihalomethanes EPA 524.2

Volatile Aromatics

1,2,3-TrichlorobenzeneEPA 524.21,2,4-TrichlorobenzeneEPA 524.21,2,4-TrimethylbenzeneEPA 524.21,2-DichlorobenzeneEPA 524.21,3,5-TrimethylbenzeneEPA 524.21,3-DichlorobenzeneEPA 524.2

Serial No.: 68402





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

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1565 JEFFERSON ROAD BUILDING 300, SUITE 360
ROCHESTER, NY 14623

EPA 524.2

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:

Volatile Aromatics 1,4-Dichlorobenzene

·		
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	

EPA 524.2 EPA 524.2

EPA 524.2 EPA 524.2

EPA 524.2

Serial No.: 68402

1,2,3-Trichloropropane1,2-Dichloroethane

1,1-Dichloroethane

1,1-Dichloroethene1,1-Dichloropropene





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NY Lab Id No: 10145

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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

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:

Volatile Halocarbons

EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
EPA 524.2
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EPA 524.2
EPA 524.2

Serial No.: 68402



Expires 12:01 AM April 01, 2025 Issued April 01, 2024

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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	

Serial No.: 68403

4-Chloroaniline

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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	

Serial No.: 68403





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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

Serial No.: 68403

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EPA 8081B



Dieldrin



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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 Endrin EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 8081B gamma-Chlordane EPA 8081B EPA 608.3 EPA 608.3 Heptachlor EPA 8081B EPA 608.3 EPA 608.3 Isodrin EPA 8081B EPA 8270E EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3	•		
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 8081B EPA 608.3 Isodrin EPA 8070D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Dieldrin	EPA 608.3	
Endosulfan II	Endosulfan I	EPA 8081B	
EPA 608.3 Endrin aldehyde EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 608.3 Endrin Ketone EPA 8081B EPA 608.3 Endrin EPA 8081B EPA 608.3 Heptachlor EPA 8081B EPA 608.3 Heptachlor 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		EPA 608.3	
Endosulfan sulfate	Endosulfan II	EPA 8081B	
Endrin		EPA 608.3	
Endrin	Endosulfan sulfate	EPA 8081B	
EPA 608.3 Endrin aldehyde		EPA 608.3	
Endrin aldehyde	Endrin	EPA 8081B	
Endrin Ketone		EPA 608.3	
Endrin Ketone EPA 8081B gamma-Chlordane EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3	Endrin aldehyde	EPA 8081B	
gamma-Chlordane EPA 8081B EPA 608.3 EPA 8081B EPA 608.3 EPA 8081B EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E EPA 8270D Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 EPA 8081B EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3		EPA 608.3	
EPA 608.3 Heptachlor EPA 8081B EPA 608.3 Heptachlor epoxide EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Endrin Ketone	EPA 8081B	
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	gamma-Chlordane	EPA 8081B	
EPA 608.3 Heptachlor epoxide EPA 8081B EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3		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	Heptachlor	EPA 8081B	
EPA 608.3 Isodrin EPA 8270D EPA 8270E Kepone EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3 EPA 608.3		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	Heptachlor epoxide	EPA 8081B	
EPA 8270E Kepone		EPA 608.3	
Kepone EPA 8270D EPA 8270E Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Isodrin	EPA 8270D	
EPA 8270E Lindane		EPA 8270E	
Lindane EPA 8081B EPA 608.3 Methoxychlor EPA 8081B EPA 608.3	Kepone	EPA 8270D	
EPA 608.3 Methoxychlor EPA 8081B EPA 608.3		EPA 8270E	
Methoxychlor EPA 8081B EPA 608.3	Lindane	EPA 8081B	
EPA 608.3		EPA 608.3	
	Methoxychlor	EPA 8081B	
Mirex EPA 8081B		EPA 608.3	
	Mirex	EPA 8081B	

Serial No.: 68403





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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	

Serial No.: 68403

Bis(2-chloroethyl)ether

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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	
	ED4 00-00	

Serial No.: 68403

Indeno(1,2,3-cd)pyrene Low Level

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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

Serial No.: 68403





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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

EPA 200.8, Rev. 5.4 (1994)

Iron, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C

EPA 6010D

Lead, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Magnesium, Total 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

EPA 200.8, Rev. 5.4 (1994)

Nickel, Total EPA 200.7, Rev. 4.4 (1994)

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Metals I

Nickel, Total EPA 6010C

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

EPA 200.8, Rev. 5.4 (1994)

Sodium, Total 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

Serial No.: 68403





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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 EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Beryllium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

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

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:

Metals III

Thallium, Total EPA 200.7, Rev. 4.4 (1994)

EPA 6010C EPA 6010D EPA 6020A EPA 6020B

EPA 200.8, Rev. 5.4 (1994)

Tin, Total 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 SO4) EPA 300.0, Rev. 2.1 (1993)

EPA 9056A

Serial No.: 68403





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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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

Serial No.: 68403





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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	

Serial No.: 68403

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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

Serial No.: 68403





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Organophosphate Pesticides

Organophiosphate resticities		
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		

EPA 625.1 EPA 8270D EPA 8270E EPA 625.1

EPA 8270D

Serial No.: 68403

Benzyl butyl phthalate

Bis(2-ethylhexyl) phthalate





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Phthalate Esters

i illidiate 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	

Serial No.: 68403

Aroclor 1232 (PCB-1232)

Aroclor 1242 (PCB-1242)

Aroclor 1248 (PCB-1248)

Aroclor 1254 (PCB-1254)

Aroclor 1260 (PCB-1260)

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EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

EPA 8082A EPA 608.3

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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	

Serial No.: 68403

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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	

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Polynuclear Aromatics

. Orymadical 7 li dimatico		
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	

Serial No.: 68403

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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

EPA 8270D 1,1'-Biphenyl EPA 8270E EPA 8270D 1,2-Dichlorobenzene, Semi-volatile **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**

Serial No.: 68403

Acetophenone

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EPA 8270E

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

Serial No.: 68403





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Semi-Volatile Organics

EPA 8270E	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 8260D	
EPA 8260C	
EPA 624.1	
EPA 8260D	
EPA 8260C	
EPA 8260D	
	EPA 8260D EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 624.1 EPA 8260D EPA 8260C

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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	

Serial No.: 68403

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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

	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 EPA 8260D

Serial No.: 68403

1,1-Dichloroethene





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

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MS. CHRISTINE KUTZER
ALS ENVIRONMENTAL - ROCHESTER
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ROCHESTER, NY 14623

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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	

Serial No.: 68403

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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	
	EPA 624.1	
Bromoform	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Bromomethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Carbon tetrachloride	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloroethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloroform	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
Chloromethane	EPA 8260D	
	EPA 8260C	
	EPA 624.1	
cis-1,2-Dichloroethene	EPA 8260D	

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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

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EPA 8260C





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Volatile Halocarbons

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 8260C

EPA 8270D

EPA 8270D SIM

EPA 8270E

EPA 8270E SIM

2-Butanone (Methylethyl ketone)

EPA 8260D

EPA 8260C

2-Hexanone

EPA 8260C

2-Nitropropane

EPA 8260C

4-Methyl-2-Pentanone

EPA 8260C

EPA 8260C

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	

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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

Serial No.: 68403

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EPA 8260D

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Acrylates

Acrolein (Propenal)

	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

Serial No.: 68404

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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	

Serial No.: 68404

Synthetic Precipitation Leaching Proc. EPA 1312

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EPA 9045D

EPA 9095B

EPA 1311



Free Liquids

TCLP



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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

Serial No.: 68404





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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

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	

EPA 8270D

Serial No.: 68404

Hexachloropropene





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EPA 8151A

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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

Haloethers

Pentachlorophenol

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
	FPA 8270F

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D
	EPA 8270E
Acenaphthylene Low Level	EPA 8270D

Serial No.: 68404





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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 Aro	matic 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	

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EPA 6020A





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Metals I

Nickel, Total	EPA 6010C	
Trionol, Total	EPA 6010D	
	EPA 6020A	
Potassium, Total	EPA 6010C	
r otacolam, rotar	EPA 6010D	
Silver, Total	EPA 6010C	
Onvoi, rotai	EPA 6010D	
	EPA 6020A	
Sodium, Total	EPA 6010C	
Jodium, Total	EPA 6010D	
Strontium, Total	EPA 6010C	
Strontium, Total	EPA 6010D	
	EFA 00 10D	
Metals II		
Aluminum, Total	EPA 6010C	
	EPA 6010D	
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	

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EPA 6010D





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EPA 7471B

EPA 6010C

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Metals II

Mercury, Total

Selenium, Total

Coloriidini, Total	217100100
	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

Serial No.: 68404





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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

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:

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	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

Serial No.: 68404





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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	

EPA 8270D

N-Nitrosodi-n-butylamine **EPA 8270E** N-Nitrosodi-n-propylamine **EPA 8270D** EPA 8270E

EPA 8270D N-Nitrosodiphenylamine **EPA 8270E**

EPA 8270D N-nitrosomethylethylamine **EPA 8270E** EPA 8270D N-nitrosomorpholine

EPA 8270E **EPA 8270D** N-nitrosopiperidine EPA 8270E EPA 8270D

Nutrients

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

Serial No.: 68404

N-Nitrosopyrrolidine





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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

Serial No.: 68404

Bis(2-ethylhexyl) phthalate

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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

Serial No.: 68404





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

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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	

Serial No.: 68404





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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 PhenoIs		
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	

Serial No.: 68404

2-Chlorophenol

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EPA 8270E

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	

Serial No.: 68404

1,3-Dichlorobenzene, Semi-volatile

1,4-Dichlorobenzene, Semi-volatile

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EPA 8270D EPA 8270E

EPA 8270D





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Semi-Volatile Organics

John Tolatilo Organico		
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	

Serial No.: 68404





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EPA 8270D

EPA 8260D

EPA 8260C

EPA 8260D EPA 8260C EPA 8260D

EPA 8260C EPA 8260D

EPA 8260C

EPA 8260D EPA 8260C

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Semi-Volatile Organics

O,O,O-Triethyl phosphorothioate

	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	

Serial No.: 68404

1.4-Dichlorobenzene

2-Chlorotoluene

4-Chlorotoluene

Bromobenzene

Benzene





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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	

Serial No.: 68404





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Volatile Aromatics

Totalilo / Il omalioo		
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	

Serial No.: 68404





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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





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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	

EPA 8260D

Serial No.: 68404

Trichlorofluoromethane





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EPA 8260C

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Volatile Halocarbons Trichlorofluoromethane

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

EPA 8260D EPA 8260C

EPA 8260D EPA 8260C

EPA 8015C

Serial No.: 68404

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Cyclohexane

Di-ethyl ether

Ethylene Glycol



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Volatile Organics

voiatile 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





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

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

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:

Sample Preparation Methods

EPA 3050B

EPA 3546

EPA 3060A

EPA 3541



Serial No.: 68404





Expires 12:01 AM April 01, 2025 Issued April 01, 2024

NY Lab Id No: 10145

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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ROCHESTER, NY 14623

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



American Premier Underwriters, Inc.

One East Fourth Street Cincinnari, Ohio 45202 Telephone (513) 579-6616 Facrimile (513) 579-0108

Michael L. Cloff Vice President and Assistant General Counses

May 25, 1995

. Effective June 1, 1995, L 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 dióffi

Vice President and Assistant General Counsel American Premier Underwriters, Inc.

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D LABRATORY ANALYTICAL REPORTS

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D (4Q23 ANALYTICAL REPORT)



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,

Mighan Pedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Michael Ghioureliotis



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2401168

Project: Union Rd Date Received: 02/13/2024

Sample Matrix: Water

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.

	Michael Pedio			
Approved by	S	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

Client: Unicorn Management Consultants Service Request:R2401168

Project: Union Rd/2011-200

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2401168-001
 4Q23 Effluent
 2/13/2024
 0900

	•	•																		•	
Λ		Chain of Cust	ody / Analyt	tical Reque	st Fo	rm						-	722	200)		SR#				
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-	Report To:	ALL SHADED AREAS	ENT / SAMPLER		Pi	reserv	ative						0		0	0	w	bons -			0. None
Company: U	nicorn Magement consultan	Project Name: Vn;	or Kond					CLP	رو ا				Ä	ig.	E			Hydrocar			1. HCl
Contact: R	igby michaelsen	Project Number: 3 o	1 - 100					24⊕T	• TCLP	ا بو	ł		13	Lab F	\$			pf			2. HNO3
Email: (M)	ch aelsen Qunical magte com	ALS Quote #:			Gw			4 ●52	625	۲		۵	<u> 8</u>	-ċ	501.05(TSS)	ļ					3. H2SO4
Phone: 30	ni corn Magement consultani ig by mich aelsen ch aelsen Ounican mgto com 03-205-9000	Sampler's Signature:	Majorin		ww sw	ners		•62	•	• 608 • TCLP		TCL	ict B	Fig	3		918	100			4. NAOH
Address: 5	2 Federal Rd Svite ac	Email CC:	-		DW s	Containers		-8260•624•524•TCLP	- 8270		8	Herbicides - 8151 • TCLP	Metals, Total - Select Below Pb/A	Metals, Dissolved - Field / In-Lab Filter	Suspended		pheno15	Extractable			5. Zn Acet.
Da	buly (T. 06810	Email CC:			L NA				- AO	Pesticides - 8081	PCBs - 8082 • 608	- 81	tal -	loss	S	t	2	支			6. MeOH
		State Samples Collected (Circle or Write):	₩, MA, PA, CT	, Other:	7	r of	MS/MSD?	GC/MS VOA	GC/MS SVOA	des	88	des	10	ă	7		2	al E			7. NaHSO4
Lab ID	Sample Co	llection Informati	ion:		Matrix	Number	/W	/MS	/MS	ţi	3s - 8	rbici	tals	tals	Total	PH	20	40			8. Other
(ALS)	Sample ID:		Date	Time		Z	MS	ĠC,	'29	Pes	2	He	Me	Σ	P		5	10+			Notes:
	403 Effluent		9/13/94	0900	GV	5							\checkmark		V	abla	V	∇			
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Special Ins	structions / Comments:		1	Turnarou	nd Re	quire	men	ts	R	epor	t Req	uire	men	ts	Met	als: R	CRA 84	PP 134	TAL 23	•TCLP•	Other (List)
				Rush (Sul *Subject to Ava *Please Check	rcharge:	s Apph	y)			Tier I	I/Cat /	A -Res	sults/C	2C	F	224	01	16			5

____Tier IV/Cat B - Data Standard (10 Business Days) Validation Report w/. Data Date Required: EDD Type: Ny Sdec Folme Company: Unicola Management Relinquished By: Relinquished By: Received By: Relinquished By: Received By: miller punicoungtion Signature Michaelsen Thirdzear Phone:

Page 7 of 27

Distribution: White - Lab Copy; Yellow - Return to Originator

UMC

13/34 0930

2(13)24

Printed Name

Company

Date/Time

Donbury



Cooler Receipt and Preservation



Project/Cli	ent				Folde	r Number					
Cooler receiv	ved on 2113	3/24	by:_	<u> 32</u>	<u>5</u> -	COURIER	: ALS	UPS FED	EX VELO	CITY CLIENT) _
1 Were C	ustody seals or	n outside of coole	я?		N	5a Perc	hlorate	samples have r	equired head	ispace? Y	N(NA)
2 Custody	y papers prope	rly completed (in	ık, sign	ed)?	YN	5b Did	VOA via	ıls, Alk,or Sulfi	de have sig	bubbles? Y	N NA
3 Did all b	ottles arrive in	good condition	(unbro	ken)?	YN	6 Whe	re did th	e bottles origina	ate? (ALSTROC CL	IENT
4 Circle:	Wet Ice Dry	Ice Gel packs	pre	sent?	Y)N	7 Soil	VOA rec	ceived as: F	Bulk End	core 5035set	MA
3. Temperatu	re Readings	Date 2[13]	24	Time	1123	<u>D</u>	IR#12	2 (IR#11)	From:	Temp Blank S	ample Bott
Observed T	emp (°C)	5.7			T.	 .	T				
Within 0-6°	C?	(Y)N		Y	N	Y N	Y	N Y	N	YN	YN
If<0°C, we	re samples froz	zen? Y N		Y	N	Y N	Y	N Y	N		YN
If out of	Temperature,	note packing/ic	e cond	ition:	•	Ice mei	ted P	oorly Packed (described b		Day Rule
&Client	Approval to R	tun Samples:		_ Star	nding Appi			at drop-off C		•	Day Raic
4111	hald in atoms	- 1	C 000		by (SE	الطالع	7 <u>//</u> at	1175			
	s held in storag	ge location: orage location:	SMC			<u> </u>	7 -	11 <u>7</u> 2			
July CCOC	es piaced in st	orage location.		'	by	оп	at _	within 4	48 hours of	sampling? Y	N '
1, 100	A Sept 1 Sept 1 Sept 1		-1,4° -	* **		祖皇は - 恵			in the state of	La Sala e Elega in the	77 C S 14 S
9. 10. 1	Were all bottle Did all bottle la	ervation Check** labels complete (abels and tags agr	(<i>i.e</i> , ana ee with	alysis, a custo	dy papers'	on, etc.)?	Ş	O by (ES) NO (ES) NO		· ·	
		ontainers used for					Q	ÆS NO	~		
		ls acceptable (no I metals filtered in			not leaking	g)?	-		I/A)		
		assettes / Tubes			with MS V	/N Cani	ters Pre		(/A)	s Inflated N/A	S
pН	Lot of test	Reagent	Preser		Lot Rece		Exp	Sample-ID	Vol.	Lot Added	Final
	paper		Yes	No			-	Adjusted	Added	Loi Added	рН
≥12		NaOH								· - · · · · · · · · · · · · · · · · · ·	F
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5-9 Residual	 	For 608pest	 	├		fy for 3day act PM to add			ļ <u>.</u>		
Chlorine		For CN, Phenol 625,	./	ŀ	Na ₂ S ₂ O ₃ (1				.
(-)	İ	608pest, 522	-			rbic (phenol).					
	1	Na ₂ S ₂ O ₃	7.00	-			1		 		
		ZnAcetate		-				**VOAs and 160	4 Not to be te	sted before analysis.	
		HCI	**	**				Otherwise, all bo are checked (not	tties of all san	iples with chemical pr	eservatives
		L			ц		1,	ar careaction	Just represent	itt vcs).	
Dattle lat				_							
Dome lot	numbers:/	100322-1EI	KP.	02	263-6	LERD. C)509 <i>1</i>	2-2FF	2. no i	nt inm	
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HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels second	dary reviewed by:_	R R
P.C. Secondary	v.Review:	

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



Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

P:\INTRANET\QAQC\Forms Controlled\QUALIF routine rev 7.doc

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



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

Client: Unicorn Management Consultants Service Request: R2401168

Project: Union Rd/2011-200

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	рН

ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants Service Request: R2401168

Project: Union Rd/2011-200

 Sample Name:
 4Q23 Effluent
 Date Collected: 02/13/24

 Lab Code:
 R2401168-001
 Date Received: 02/13/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 BBOWE

6010C ECASTROVINCI MMCMAHON

SM 2540 D-2015 HCASTROVINCI

SM 4500-H+ B 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)	3005A/3010A				
extract					
6010 SPLP (1312) extract	3005A/3010A				
7199	3060A				
300.0 Anions/ 350.1/	DI extraction				
353.2/ SM 2320B/ SM					
5210B/ 9056A Anions					
For analytical methods not listed, the preparation method is the same as the analytical method reference.					



Sample Results



Metals

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401168 **Date Collected:** 02/13/24 09:00 **Project:** Union Rd/2011-200

Date Received: 02/13/24 11:20 **Sample Matrix:** Water

Sample Name: 4Q23 Effluent Basis: NA

Lab Code: R2401168-001

Inorganic Parameters

Analysis

Analyte Name	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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401168 Union Rd/2011-200 **Date Collected:** 02/13/24 09:00 **Project:**

Date Received: 02/13/24 11:20 **Sample Matrix:** Water

Sample Name: 4Q23 Effluent Basis: NA

Lab Code: R2401168-001

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	
pН	SM 4500-H+ B	6.95	pH Units	-	1	02/14/24 13:00	Н
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



Metals

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401168 Date Collected: NA Union Rd/2011-200

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2401168-MB

Inorganic Parameters

Analysis

Analyte Name	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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401168 Union Rd/2011-200 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2401168-MB

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 Date Analyzed: 02/20/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2401168

Lab Control Sample

Duplicate Lab Control Sample

R2401168-LCS1

R2401168-DLCS1

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

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D (1Q24 ANALYTICAL REPORT)



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@alsqlobal.com.

Respectfully submitted,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2401870

Project: Union Rd Date Received: 03/07/2024

Sample Matrix: Water

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.

	Michael Pedio		
Approved by		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: R2401	870-001		
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

Client: Unicorn Management Consultants Service Request:R2401870

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2401870-001
 1Q24 Effluent
 3/7/2024
 0920

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Email:	igby Michaelsen		<u> dol</u>	1-100		4			24•	•	TCLP			<u>3</u>	-Lab	Solids			SK.			2. HNO3
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Supple: 90	3-205-9000	Sampler's Sign	iture: 19	Jolch		sw	Containers		9•0	8	809		• TCLP	ect	- Fie	Suspended		Phenols	Extractable	!		4. NAOH
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(ALS)	Sample ID:			Date	Time	Σ̈́	-	Σ̈́	9	39	Pe	2	포	ĮĔ	ž	1-		5	12		Ш	Notes:
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Special Ins	tructions / Comments:				Turnarou				ts	F	lepoi	rt Re	quire	men	ts	Met	als: R	CRA 8	PP 13	TAL 23	•TCLP•	Other (List)
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Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

R2401870 5

Did all bottle labels and tags agree with custody papers? Were correct containers used for the tests indicated? Were 5035 vials acceptable (no extra labels, not leaking)? Were dissolved metals filtered in the field? Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A Lot of test paper NaOH NaOH 2 213623 HNO3	(, , , _	-, , ,	Michael	. ^										
Were Custody seals on outside of cooler? V N Sa Perchlorate samples have required headspace? Y N N N Should be properly completed (ink, signed)? Y N Sa Did VOA vials, Alk, or Sulfide have sig* bubbles? Y N N Should all bottles arrive in good condition (unbroken)? Y N Sa Did VOA vials, Alk, or Sulfide have sig* bubbles? Y N N N Should all bottles arrive in good condition (unbroken)? Y N Soil VOA received as: Bulk Encore 5035set N Served Temp (*C) Order temp (*	roject/Cli	ent	riicor	<u>Y)</u>		Folde	r Number_						·—	
Custody papers properly completed (ink, signed)? YN 5b Did VOA vials, Alk, or Suifide have sig* bubbles? YN N Did all bottles arrive in good condition (unbroken)? YN 6 Where did the bottles originate? ALSROC CLIENT Circle: Wet Lee Dry Ice Gel packs present? YN 7 Soil VOA received as: Bulk Encore 5035set MA Encore 5035set M	oler receiv	$\sqrt{2}$ ed on 3	7/24	by:	32	§.	COURIER	: ALS	UPS	FEDEX	VELC	CITY (CL	IENT	
Did all bottles arrive in good condition (unbroken)? Y N 6 Where did the bottles originate? (ALS/ROC CLIENT Circle: Vet Ice) Dry Ice Gel packs present? Y N 7 Soil VOA received as: Bulk Encore 5035set 8 Served Temp (°C)	Were C	ustody seals o	n outside of cool	er?		YN	5a Perc	hlorate	samples	have requ	ired hea	dspace?	Y	N(N)
Circle: Vet Ice Dry Ice Gel packs present? YN 7 Soil VOA received as: Bulk Encore 5035set 82 emperature Readings Date: 3 124 Time: 114 ID: IR#12 (R#1) From: Temp Blank (ample B served Temp (°C)	Custody	papers prop	erly completed (i	nk, sigr	ned)?	VV	5b Did	VOA via	ıls, Alk,	r Sulfide	have sig	* bubbles?	Y	W N
emperature Readings Date: 2 724 Time: 114 ID: R#12 (R#1) From: Temp Blank (ample B served Temp (°C) 2.4 Imin 0.6°C? (D) N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Did all b	ottles arrive i	good condition	(unbro	ken)?	YN	6 Whe	re did th	e bottles	originate'	? (ALSTROC	CLI	ENT
Samples frozen? Samples frozen? N N Y N Y N Y N Y N Y N Y N Y N Y N Y	Circle:	Wet Ice Dr	y Ice Gel packs	pre	sent?	YN	7 Soil	VOA rec	ceived as	: Buli	k En	core 503	5set	MÃ
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thin 0-6°C? O'C, were samples frozen? YN YN YN YN YN YN YN YN YN YN YN YN YN			2.4										\top	
If out of Temperature, note packing/ice condition: Scellent Approval to Run Samples: Standing Approval Standing Approval Client aware at drop-off Client notified by: It samples held in storage location: Sy on at within 48 hours of sampling? Y N Cooler Breakdown/Preservation Check**: Date: 3/1/2 / Time: 1257 by: RR Were all bottle labels complete (i.e. analysis, preservation, etc.)? Were all bottle labels and tags agree with custody papers? Were correct containers used for the tests indicated? Were 5035 vials acceptable (no extra labels, not leaking)? Were dissolved metals filtered in the field? Air Samples: Cassettes / Tubes Intact Y/N with MS Y/N Canisters Pressurized Hold Lot of test Reagent Preserved? Preserved? Lot Received Exp Sample-ID Vol. Lot Added Final paper Preserved? Lot Received Exp Sample-ID Vol. Lot Added PH Adjusted Added PH Adjusted Added PH Adjusted Added Phot to be tested before analysis. Chilorine Phenolo 625, NoNoNoNoNoNoNoNoNoNo			(Y) N			N	Y N	Y	N	YN	1	YN	Y	N
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35 samples placed in storage location: by on at within 48 hours of sampling? Y N Cooler Breakdown/Preservation Check**: Date: 3/H/2H Time: 1757 by: RR Were all bottle labels complete (i.e. analysis, preservation, etc.)? Were all bottle labels and tags agree with custody papers? Were correct containers used for the tests indicated? Were 5035 vials acceptable (no extra labels, not leaking)? Were dissolved metals filtered in the field? Were dissolved metals filtered in the field? Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated V/A Lot of test Reagent Preserved? Lot Received Exp Sample ID Vol. Lot Added PH Lot of test Reagent Preserved? Lot Received Exp Sample ID Adjusted Added PH 2 213623 HNO3 V 240023+2 5/25 3 if H ₂ SO ₄ V 2220005 9 5/25 All NaHSO ₄ NaHSO ₄ NaSo ₄ V 2220005 9 5/25 Na ₂ So ₃ NaSo ₄ V 2220005 9 5/25 Na ₂ So ₃ CN, ascorbic (phenol). Na ₂ So ₂ O ₃ CnAcetate HCl *** *** Bottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ	&Client	Approval to l	Run Samples:		_ Stat	nding Appr	oval Clien	t aware	at drop-c	off Clie	nt notifi	ed by:		
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H ₂ SO ₄	<u>=12</u> ≤2	213622		17		2400	221.7	5hc		· -				
NaHSO4 NaHSO4 No=Notify for 3day Residual For CN, Phenol, 625, 608 pest, 522 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 preservative are checked (not just representatives). **Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives).	<u>==</u> ≤2			 	1			 -				 		
Residual For CN, If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). Na ₂ S ₂ O ₃ ZnAcetate				-	†	2220	000	2127	·			 		<u> </u>
Residual Chlorine Phenol. 625, 608pest, 522 Na ₂ S ₂ O ₃ ZnAcetate HCl ** ** For CN, If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol). CN, ascorbic (phenol). CN, ascorbic (phenol). **VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives). Sottle lot numbers: O10124-2AES 100322-1EKP 040323-2EFO	5-9			_		No=Notif	y for 3day	 	-			 	·	
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HCl ** ** Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives). Bottle lot numbers: 010124-2AES, 100322-1EKP, 040323-2EFQ				<u> </u>	-				**VOAs	and 1664 N	ot to be to	sted before an	alysis.	
Bottle lot numbers: 0/0/24 - 2AES . 100322 - IEKP . 040323 - 2EFO	•		HCl	**	**				Otherwis	e, ali bottle:	of all sar	uples with che	mical pre	servativo
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· · · · · · · · · · · · · · · · · · ·	Bottle lot	numbers:	010124-26) F G	11	10272	IEKO N	40272			represent	anves).		
			010124 - 26	IES,	10	0322-1	EKP, O	10323			represent	anves).		
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HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR
PC Secondary Review:

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



Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

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- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



Ī	NELAP States
Ī	Florida ID # E87674
	New Hampshire ID # 2941
	New York ID # 10145
	Pennsylvania ID# 68-786
Ī	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 Service Request: R2401870

Project: Union Rd/2011-100

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

Analyst Summary report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100

Service Request: R2401870

Sample Name: 1Q24 Effluent Date Collected: 03/7/24

Lab Code: R2401870-001 **Date Received:** 03/7/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B CCAMPBELL

420.4 BBOWE

6010C CDISTEFANO MMCMAHON

SM 2540 D-2015 SM 4500-H+ B 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)	3005A/3010A				
extract					
6010 SPLP (1312) extract	3005A/3010A				
7199	3060A				
300.0 Anions/ 350.1/	DI extraction				
353.2/ SM 2320B/ SM					
5210B/ 9056A Anions					
For analytical methods not listed, the preparation method is the same as the analytical method reference.					



Sample Results



Metals

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401870 **Date Collected:** 03/07/24 09:20 **Project:** Union Rd/2011-100

Date Received: 03/07/24 11:06 **Sample Matrix:** Water

Sample Name: 1Q24 Effluent Basis: NA

Lab Code: R2401870-001

Inorganic Parameters

Analysis

Analyte Name	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

Analytical Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 **Date Collected:** 03/07/24 09:20

Sample Matrix: Water Date Received: 03/07/24 11:06

Sample Name: 1Q24 Effluent Basis: NA

Lab Code: R2401870-001

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	
pН	SM 4500-H+ B	7.07	pH Units	-	1	03/07/24 15:49	Н
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	Н

Service Request: R2401870



QC Summary Forms



Metals

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401870

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: Water

Date Received: NA

Sample Name:

Method Blank

Basis: NA

Lab Code:

R2401870-MB

Inorganic Parameters

Analysis

Analyte Name	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	

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

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2401870 Union Rd/2011-100 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2401870-MB

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	

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 **Date Analyzed:** 03/11/24 - 03/12/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2401870

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

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 Date Analyzed: 03/15/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2401870

Lab Control Sample

Duplicate Lab Control Sample

R2401870-LCS1

R2401870-DLCS1

	Analytical		Spike		Spike			% Rec	RPD	
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Oil and Grease, Total (HEM)	1664B	40.2	41.7	96	38.6	42.6	91	78-114	4	18

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D (2Q24 ANALYTICAL REPORT)



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@alsqlobal.com.

Respectfully submitted,

Mighour Pedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2403597

Project: Union Rd Date Received: 05/01/2024

Sample Matrix: Water

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.

	Mistran Pedro			
Approved by	0	Date	05/08/2024	



Sample Receipt Information

Client: Unicorn Management Consultants Service Request:R2403597

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2403597-001
 2Q24 Effluent
 5/1/2024
 0915

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Distribution: White - Lab Copy; Yellow - Return to Originator

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BULK
FLDT
HGFB
LL3541

Labels secondary review	ved by: <u>SSS:</u>
PC Secondary Review:	·

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



Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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 # 294	1 1
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.

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 Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 BBOWE

6010C CDISTEFANO NMANSEN

SM 2540 D-2015 HCASTROVINCI

Printed 5/8/2024 4:27:47 PM



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	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

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



Sample Results



Metals

Analytical Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 **Date Collected:** 05/01/24 09:15

Sample Matrix: Water Date Received: 05/01/24 11:45

Sample Name: 2Q24 Effluent Basis: NA

Lab Code: R2403597-001

Inorganic Parameters

Analysis **Analyte Name** Method Result MRL Dil. **Date Analyzed Date Extracted** Units 6010C 05/03/24 20:54 Lead, Total ND U mg/L 0.0050 05/02/24

Service Request: R2403597



General Chemistry

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2403597 Union Rd/2011-100 **Date Collected:** 05/01/24 09:15 **Project:**

Date Received: 05/01/24 11:45 **Sample Matrix:** Water

Sample Name: 2Q24 Effluent Basis: NA

Lab Code: R2403597-001

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



Metals

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2403597

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: Water

Date Received: NA

Sample Name:

Method Blank

Basis: NA

Lab Code:

R2403597-MB

Inorganic Parameters

Analysis

Analyte Name	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	

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



General Chemistry

Analytical Report

Client: Unicorn Management Consultants

> Union Rd/2011-100 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2403597-MB

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	

Service Request: R2403597

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 **Date Analyzed:** 05/02/24 - 05/06/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2403597

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

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 Date Analyzed: 05/03/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2403597

Lab Control Sample

Duplicate Lab Control Sample

R2403597-LCS1

R2403597-DLCS1

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Oil and Grease, Total (HEM)	1664B	33.1	41.5	80	35.2	41.6	85	78-114	6	18

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D (3Q24 ANALYTICAL REPORT)



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@alsqlobal.com.

Respectfully submitted,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2407937

Project: Union Rd Date Received: 08/20/2024

Sample Matrix: Water

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.

	Michrae Pedio		
Approved by	U	Date	09/06/2024



Sample Receipt Information

Client: Unicorn Management Consultants Service Request:R2407937

Project: Union Rd/2011-200

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>HME</u>
R2407937-001	3Q24 Effluent	8/20/2024	0915
R2407937-002	3Q24 Effluent Diss	8/20/2024	0915

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(ALS)

Distribution: White - Lab Copy; Yellow - Return to Originator

Chain of Custody / Analytical Request Form

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Cooler Receipt and Preservation Check Form

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1 Were C	ustody_seals_o	n outside of coole	r?		Y_0	5a	Did.V	OA-via	ls have	sig <u>*</u> bu	bbles?—		Y_1	N-(A)-
2 Custody	y papers prope	rly completed (ir	ık, signe	ed)?	Ø N	5b	Sig* 1	oubbles	All	? Y	N (NA)	Sulfide?	Y	N (NA
3 Did all b	ottles arrive in	good condition	(unbrok	en)?	Q _N	6	Wher	e did the	bottle	origina	te?	ALS/ROC	CLIE	INT
4 Circle:	Wet Ice Dry	Ice Gel packs	pres	ent?	Q _N	7	Soil V	OA rec	eived a	s: B	ulk E	ncore 5035	set (VA
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If out of	Temperature,	note packing/ic	e condi	tion:		Ice	e meli	ed P	oorly P	acked (d	described	below)	Same D	Day Rule
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		ontainers used for						8	ES>1	NO				
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SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES-

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

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05/17/2024



Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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



NEI	AP States
Flori	da ID # E87674
New	Hampshire ID # 2941
New	York ID # 10145
Penr	sylvania ID# 68-786
Virg	inia #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.

-		
Page	П	of 28

Analyst Summary report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200

Service Request: R2407937

 Sample Name:
 3Q24 Effluent
 Date Collected: 08/20/24

 Lab Code:
 R2407937-001
 Date Received: 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

 1664B
 SZOGBY

 420.4
 CWOODS

6010D CDISTEFANO ECASTROVINCI

SM 2540 D-2015 HCASTROVINCI

 Sample Name:
 3Q24 Effluent Diss
 Date Collected:
 08/20/24

 Lab Code:
 R2407937-002
 Date Received:
 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

6010D CDISTEFANO ECASTROVINCI

Sample Name: MW-10D Date Collected: 08/20/24

Lab Code: R2407937-003 Date Received: 08/20/24 Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B 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	SM 4500-CN-G and
Amenable and Residual	SM 4500-CN-B,C-2016
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation				
	Method				
6010C or 6010D	3050B				
6020A or 6020B	3050B				
6010C or 6010D TCLP	3005A/3010A				
(1311) extract					
6010C or 6010D SPLP	3005A/3010A				
(1312) extract					
7199	3060A				
300.0 Anions/ 350.1/ 353.2/	DI extraction				
SM 2320B/ SM 5210B/					
9056A Anions					
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



Metals

Analytical Report

Client: Unicorn Management Consultants

R2407937-001

Lab Code:

Project: Union Rd/2011-200 **Date Collected:** 08/20/24 09:15

Sample Matrix: Water Date Received: 08/20/24 17:20

Sample Name: 3Q24 Effluent Basis: NA

Inorganic Parameters

Analysis **Analyte Name** Method Result Units MRL Dil. **Date Analyzed Date Extracted** 6010D 08/23/24 17:46 Lead, Total 0.0050 U mg/L 0.0050 08/22/24

Service Request: R2407937

Analytical Report

Client: Unicorn Management Consultants

R2407937-002

Lab Code:

Service Request: R2407937 **Date Collected:** 08/20/24 09:15 **Project:** Union Rd/2011-200

Date Received: 08/20/24 17:20 **Sample Matrix:** Water

Sample Name: 3Q24 Effluent Diss Basis: NA

Inorganic Parameters

Analysis **Analyte Name** Method Result MRL Dil. **Date Analyzed Date Extracted** Units Lead, Dissolved 6010D 08/23/24 17:50 50 U ug/L 50 08/22/24



General Chemistry

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 Union Rd/2011-200 **Date Collected:** 08/20/24 09:15 **Project:**

Date Received: 08/20/24 17:20 **Sample Matrix:** Water

Sample Name: 3Q24 Effluent Basis: NA

Lab Code: R2407937-001

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



Metals

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 Date Collected: NA Union Rd/2011-200

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2407937-MB

Inorganic Parameters

Analysis

Analyte Name	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	

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 Date Analyzed: 08/23/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

> Units:ug/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS

R2407937-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Lead, Dissolved	6010D	521	500	104	513	500	103	80-120	2	20

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 Date Analyzed: 08/23/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

Units:mg/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS

R2407937-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Lead, Total	6010D	0.521	0.500	104	0.513	0.500	103	80-120	2	20



General Chemistry

Analytical Report

Client: Unicorn Management Consultants

> Union Rd/2011-200 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2407937-MB

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	

Service Request: R2407937

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 **Date Analyzed:** 08/26/24 - 08/27/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2407937

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 Date Analyzed: 09/03/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS1

R2407937-DLCS1

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Oil and Grease, Total (HEM)	1664B	32.6	39.9	82	35.5	40.9	87	78-114	9	18

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D (4Q24 ANALYTICAL REPORT)



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,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2411752

Project: Union Rd Date Received: 11/14/2024

Sample Matrix: Water

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.

	Michael Pedro			
Approved by	\mathcal{O}	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

Client: Unicorn Management Consultants Service Request:R2411752

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2411752-001
 4Q24 Effluent
 11/14/2024
 0920

A
11
(ALS)

Chain of Custody / Analytical Request Form

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Cooler Receipt and Preservation Check Form

Project/Client				Folder Number		rjir se a je				:•
Cooler received on 1111	1/24	by: 12	101	COURIER:	ALS	UPS FEDE	X VELO	CITY CLI	ENT	· , s = -
1 Were Custody seals or	outside of coole	a ?		Y) N 5a Did V	OA via	ls have sig* bu	bbles?		Y	N (NA)
2 Custody papers prope	rly completed (in	k, sign	ed)? (Y N 5b 'Sig* b	ubbles:	Alk? Y	N (NA)	Sulfide?	Y	N NA
3 Did all bottles arrive in	good condition	(unbrol	. 1	~~	did the	bottles origina	te? /	ALS/ROC)	CLIE	NT
4 Circle: Wet Ide Dry	Ice Gel packs	pres	ent?	YN 7 Soil V	OA rec	cived as: B	ulk Enc	ore 5035	Set (1	7
8: Temperature Readings	Date: 1	1124	Time	1707 D	IR#12	(IR#1)-	From: (Temp Blan	San	nple Bottle ::
Temp (°C)	10.3	1		. 64.4	- :	4.	- 1 +			
Within 0-6°C?	Y (DV	7.	Y	N Y N	Y	N Y	N	YN	Y	N
If <0°C, were samples from	zen? Y N		Y	N Y N	Y	N	N	YN	Y	N
If out of Temperature,	note packing/ic	e cond	ition:	Ice melt	ed P	oorly Packed (d	lescribed be	clow)	Same D	ay Rule
&Client Approval to F				ding Approval Client		• •				
All samples held in storage 5035 samples placed in st		<u> </u>		on	at	within 4	8 hours of	sampling?	Y	N .
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HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	. LL3541

Labels secondary reviewed by:

Explain all Discrepancies/ Other Comments:

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



Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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

 Sample Name:
 4Q24 Effluent
 Date Collected: 11/14/24

 Lab Code:
 R2411752-001
 Date Received: 11/14/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 CWOODS

6010D CDISTEFANO NMANSEN

SM 2540 D-2015 HCASTROVINCI

Service Request: R2411752

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	SM 4500-CN-G and
Amenable and Residual	SM 4500-CN-B,C-2016
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation							
	Method							
6010C or 6010D	3050B							
6020A or 6020B	3050B							
6010C or 6010D TCLP	3005A/3010A							
(1311) extract								
6010C or 6010D SPLP	3005A/3010A							
(1312) extract								
7199	3060A							
300.0 Anions/ 350.1/ 353.2/	DI extraction							
SM 2320B/ SM 5210B/								
9056A Anions								
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



Metals

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752 **Date Collected:** 11/14/24 09:20 **Project:** Union Rd/2011-100

Date Received: 11/14/24 16:35 **Sample Matrix:** Water

Sample Name: 4Q24 Effluent Basis: NA

Lab Code: R2411752-001

Inorganic Parameters

Analysis

Analyte Name	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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752 Union Rd/2011-100 **Date Collected:** 11/14/24 09:20 **Project:**

Date Received: 11/14/24 16:35 **Sample Matrix:** Water

Sample Name: 4Q24 Effluent Basis: NA

Lab Code: R2411752-001

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



Metals

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: V

Water Date Received: NA

Sample Name:

Lab Code:

Method Blank R2411752-MB Basis: NA

Inorganic Parameters

Analysis

Analyte Name	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	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 Date Analyzed: 11/19/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

> Units:mg/L Basis:NA

Service Request: R2411752

Lab Control Sample

Duplicate Lab Control Sample

R2411752-LCS

R2411752-DLCS

	Spike			Spike			% Rec		RPD	
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Lead, Total	6010D	0.514	0.500	103	0.516	0.500	103	80-120	<1	20



General Chemistry

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411752 Union Rd/2011-100 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2411752-MB

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 Date Analyzed: 11/19/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2411752

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 **Date Analyzed:** 11/20/24 - 11/26/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2411752

Lab Control Sample

Duplicate Lab Control Sample

R2411752-LCS1

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

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D
(MW-10D
ANALYTICAL
REPORT)

Using EPA Method 1664B



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,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client:Unicorn Management ConsultantsService Request: R2407937Project:Union RdDate Received: 08/20/2024

Sample Matrix: Water

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.

	Millian Pedro			
Approved by	S	Date	09/06/2024	



Sample Receipt Information

Client: Unicorn Management Consultants Service Request:R2407937

Project: Union Rd/2011-200

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<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

Λ
(ALS)

Distribution: White - Lab Copy; Yellow - Return to Originator

Chain of Custody / Analytical Request Form

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Cooler Receipt and Preservation Check Form

Project/Cli	entUn	Cah			Fold	er Number		_						
Cooler received on 8/20/24 by: RDA COURIER: ALS UPS FEDEX VELOCITY CHENT														
1 Were C	ustody_seals_o	n outside of cool	er?		Y_(1)	5aDid	VOA-via	ls-have-	sig* bubbles?			Y_1	V-XA3-	
2 Custody	papers prope	erly completed (in	nk, sign	ed)?	Ø N		* bubbles:	_	Y N N		Sulfide?	<u> </u>	N (NA	
3 Did all b	ottles arrive in	good condition	(unbro	ken)?	Q N	6 Wh	ere did the	e bottles	originate?	<u>- 1</u> A1	S/ROC)	CLIE	NT	
4 Circle:	Wet Ice Dry	y Ice Gel packs			eceived as: Bulk Encore 5035set NA									
8. Temperatu	re Readings	Date: <u>\$/20</u>	124	Time	:1740) 11	D: IR#12	IR#1	D Fr	om: 1	Temp Blan		nple Bottle	
Temp (°C)		9.0	7				1	ĺ		1		-		
Within 0-6°	C?	(V) N		Y	N	YN	Y	N	YN	+	ΥN	Y	N	
If <0°C, we	re samples fro	zen? Y N	1	Ÿ	N	YN	Ŷ	N	YN		YN	Ÿ	N	
If out of	Temperature,	note packing/ic	e cond	ition:		Ice m	eited P	oorly Pa	acked (describ			Same D	Day Rule	
&Client	Approval to F	Run Samples:		_ Star	nding App				off Client n				——	
All samples	held in stora	ge location:	Rd	12	by 1212	1 on 8	20 Pat 1	1741	····	····				
5035 sampl	es placed in st	torage location:			by	on	at	<u> </u>	within 48 hou	rs of sa	mpling?	Y	N	
Cooler Breakdown/Preservation Check**: Date: 82124 Time: 1322 by:855.														
9.	9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO													
10. J	10. Did all bottle labels and tags agree with custody papers?													
		ontainers used to ls acceptable (no				~\?	Q		10 4000 10					
		l metals filtered i			not leakir	ig)?			10 N/A					
		Cassettes / Tubes			with MS	Y/N Car	isters Pre) Rane	Inflated /	N/A		
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1-7		Na ₂ S ₂ O ₃	 	 		(F)								
	<u></u>	ZnAcetate	 		<u> </u>		-	*****	n and 1664 No. 1	<u> </u>	-41-C	1		
HCl ** **						+	Otherwi	**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives						
		ncı		L	<u> </u>			are chec	ked (not just repr	esenta <u>ti</u>	ves).			
Bottle lot	numbers: C	10010.1	⊥ JF1:	L D	\	300 d	-L 10 F		ked (not just repr WHLQ (esentati	ves).			

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES-

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

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Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

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- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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.

Analyst Summary report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200

Service Request: R2407937

 Sample Name:
 3Q24 Effluent
 Date Collected: 08/20/24

 Lab Code:
 R2407937-001
 Date Received: 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B SZOGBY 420.4 CWOODS

6010D CDISTEFANO ECASTROVINCI

SM 2540 D-2015 HCASTROVINCI

 Sample Name:
 3Q24 Effluent Diss
 Date Collected:
 08/20/24

 Lab Code:
 R2407937-002
 Date Received:
 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

6010D CDISTEFANO ECASTROVINCI

 Sample Name:
 MW-10D
 Date Collected:
 08/20/24

 Lab Code:
 R2407937-003
 Date Received:
 08/20/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

1664B 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	SM 4500-CN-G and
Amenable and Residual	SM 4500-CN-B,C-2016
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation				
	Method				
6010C or 6010D	3050B				
6020A or 6020B	3050B				
6010C or 6010D TCLP	3005A/3010A				
(1311) extract					
6010C or 6010D SPLP	3005A/3010A				
(1312) extract					
7199	3060A				
300.0 Anions/ 350.1/ 353.2/	DI extraction				
SM 2320B/ SM 5210B/					
9056A Anions					
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



Metals

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 **Date Collected:** 08/20/24 09:15 **Project:** Union Rd/2011-200

Date Received: 08/20/24 17:20 **Sample Matrix:** Water

Sample Name: 3Q24 Effluent Basis: NA

Lab Code: R2407937-001

Inorganic Parameters

Analysis **Analyte Name** Method Result MRL Dil. **Date Analyzed Date Extracted** Units 6010D 08/23/24 17:46 Lead, Total ND U mg/L 0.0050 08/22/24

Analytical Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 **Date Collected:** 08/20/24 09:15

Sample Matrix: Water Date Received: 08/20/24 17:20

Sample Name: 3Q24 Effluent Diss Basis: NA

Lab Code: R2407937-002

Inorganic Parameters

Analysis **Analyte Name** Method Result MRL Dil. **Date Analyzed Date Extracted** Units Lead, Dissolved 6010D 08/23/24 17:50 ND U ug/L 50 08/22/24

Service Request: R2407937



General Chemistry

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 Union Rd/2011-200 **Date Collected:** 08/20/24 09:15 **Project:**

Date Received: 08/20/24 17:20 **Sample Matrix:** Water

Sample Name: 3Q24 Effluent Basis: NA

Lab Code: R2407937-001

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	

Analytical Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 **Date Collected:** 08/20/24 15:30

Sample Matrix: Water Date Received: 08/20/24 17:20

Sample Name: MW-10D Basis: NA

Lab Code: R2407937-003

Inorganic Parameters

Analysis
Analyte Name 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

Service Request: R2407937



QC Summary Forms



Metals

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2407937 Date Collected: NA Union Rd/2011-200

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2407937-MB

Inorganic Parameters

Analysis

Analyte Name	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	

QA/QC Report

Client: Unicorn Management Consultants

Service Request: R2407937 **Project:** Union Rd/2011-200 Date Analyzed: 08/23/24

Sample Matrix: Water

> **Duplicate Lab Control Sample Summary Inorganic Parameters**

> > Units:ug/L Basis:NA

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS

R2407937-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Lead, Dissolved	6010D	521	500	104	513	500	103	80-120	2	20

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 Date Analyzed: 08/23/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Inorganic Parameters

> Units:mg/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS

R2407937-DLCS

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Lead, Total	6010D	0.521	0.500	104	0.513	0.500	103	80-120	2	20



General Chemistry

Analytical Report

Client: Unicorn Management Consultants

> Union Rd/2011-200 Date Collected: NA

Project: Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2407937-MB

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	

Service Request: R2407937

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 **Date Analyzed:** 08/26/24 - 08/27/24

Sample Matrix: Water

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2407937

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

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-200 Date Analyzed: 09/03/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Service Request: R2407937

Lab Control Sample

Duplicate Lab Control Sample

R2407937-LCS1

R2407937-DLCS1

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Oil and Grease, Total (HEM)	1664B	32.6	39.9	82	35.5	40.9	87	78-114	9	18

Union Road Site: Groundwater Monitoring Report

Period: Annual Report for 2024

APPENDIX D
(MW-10D
ANALYTICAL
REPORT)



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@alsqlobal.com.

Respectfully submitted,

Mughour tedro

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager

CC: Francisco Trejo



Narrative Documents



Client: Unicorn Management Consultants Service Request: R2411753

Project: Union Rd Date Received: 11/14/2024

Sample Matrix: Water

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.

Semivoa GC:

Method 8015C, 862967s: The control limits were exceeded for one or more surrogates due to matrix interferences. A reextraction 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.

	Michael Pedro			
Approved by	\mathcal{O}	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

Client: Unicorn Management Consultants Service Request:R2411753

Project: Union Rd/2011-100

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2411753-001
 MW-10D
 11/14/2024
 1320

Λ
(ALS)

Chain of Custody / Analytical Request Form

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• 6(*	Herbicides - 8151 ● TCLP	elect	7							4. NAOH	
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Email:	corn manggement consults gby Michaelsen ichaelsen Ovnigornnyt, 3-205-9000 ext 19	Project Name:	11-100 11-100		GW WW SW DW S L	of Containers	D?	S 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-tab Filter	1080 ROLS				0. None 1. HCl 2. HNO3 3. H2SO4 4. NAOH 5. Zn Ace 6. MeOH 7. NaHSO	‡ et.
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Date/Time (1) 7 0 16 00 111 N/29 60P

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form



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Cooler receiv	ed on \\\	124	by: <u>1</u> 2	1CI		COURIER:	ALS	UPS FEI	DEX VELO	OCITY CLIE	THE	
1 Were Cu	istody seals on	outside of coole	r?	7	Y) N	5a Did V	OA via	ls have sig*	bubbles?		Y N	(NA)
2 Custody	papers prope	rly completed (in	k, sign	ed)?	(V) N	5b ' 'Sig* b	ubbles:	Y Alk? Y	N (NA)	Sulfide?	YN	(NA)
3 Did all b	ottles arrive in	good condition	(unbrol	cen)?	(Y) N	6 Where	did the	bottles origi	nate?	ALS/ROC)	CLIEN	<u>r</u>
4 Circle:	Wet Ide Dry	Ice Gel packs	pres	ent?	(Y) N	7 Soil V	OA rec	eived as:	Bulk Er	core 5035	set (NA	7
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HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	. LL3541

Labels secondary reviewed by:

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

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Miscellaneous Forms



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.
- 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/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- 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.
- * 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.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- 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.

9/25/24

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 Service Request: R2411753

Project: Union Rd/2011-100

Non-Certified Analytes

Certifying Agency: New York Department of Health

MethodMatrixAnalyte8015CWaterC28 - C40 ORO

Analyst Summary report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100

Service Request: R2411753

Sample Name: MW-10D

Lab Code: R2411753-001

Date Collected: 11/14/24 **Date Received:** 11/14/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8015C JVANHEYNINGEN AFELSER

Sample Name: MW-10D Date Collected: 11/14/24

Lab Code: R2411753-001.R01 **Date Received:** 11/14/24

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

8015C KPROCOPIO 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	SM 4500-CN-G and
Amenable and Residual	SM 4500-CN-B,C-2016
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Solid/Soil/Non-Aqueous Matrix

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



Semivolatile Organic Compounds by GC

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411753 **Date Collected:** 11/14/24 13:20 **Project:** Union Rd/2011-100

Sample Matrix: Water **Date Received:** 11/14/24 16:35

Sample Name: MW-10D Units: ug/L Lab Code: R2411753-001 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	230	100	1	11/26/24 18:54	11/21/24	
Alkanes						
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	*

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411753 **Date Collected:** 11/14/24 13:20 **Project:** Union Rd/2011-100

Sample Matrix: Water **Date Received:** 11/14/24 16:35

Sample Name: MW-10D Units: ug/L Lab Code: R2411753-001 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	560	100	1	12/03/24 13:47	11/27/24	*
Alkanes						
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



Semivolatile Organic Compounds by GC

QA/QC Report

Client: Unicorn Management Consultants Service Request: R2411753

Project: Union Rd/2011-100

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY Semivolatile Range Organics by GC/FID

Analysis Method: 8015C **Extraction Method:** EPA 3510C

		o-Terphenyl
Sample Name	Lab Code	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

Analytical Report

Client: Unicorn Management Consultants

Service Request: R2411753

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: Water

Date Received: NA

Sample Name:

Method Blank

Units: ug/L

Lab Code: RQ2415273-01

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	ND U	100	1	11/26/24 17:39	11/21/24	
Alkanes C28 - C40 ORO	ND II	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	

Analytical Report

Client: Unicorn Management Consultants Service R

Service Request: R2411753

Project: Union Rd/2011-100

Date Collected: NA

Sample Matrix: Water

Date Received: NA

Sample Name:

Lab Code:

Method Blank 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	ND U	100	1	12/03/24 12:33	11/27/24	
Alkanes						
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	

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

Duplicate Lab Control Sample

RQ2415273-02

RQ2415273-03

	Analytica		Spike			Spike		% Rec		RPD
Analyte Name	l Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Diesel Range Organics (DRO) as C10-	8015C	164	500	33	178	500	36	31-99	8	30
C28 Alkanes										

QA/QC Report

Client: Unicorn Management Consultants

Project: Union Rd/2011-100 Date Analyzed: 12/03/24

Sample Matrix: Water

Duplicate Lab Control Sample Summary Semivolatile Range Organics by GC/FID

Units:ug/L Basis:NA

Service Request: R2411753

Lab Control Sample

Duplicate Lab Control Sample

RQ2415296-02

RQ2415296-03

Analyte Name	Analytica l 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