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Originally Submitted: May 31, 2026

Revision: July 8, 2026

Mr. Bradley Demo
Division of Environmental Remediation
New York State Department of Environmental Conservation
700 Delaware Ave.
Buffalo, NY 14209

Re: Industrial Welding Site, Niagara Falls, New York
Site No. 932050
Annual Periodic Review Report – 2026
Periodic Review Report – May 01, 2025 through May 01, 2026

Dear Mr. Demo:

As requested by NYSDEC, we have submitted this revised IWS PRR and certification electronically via email that respond and address comments received by NYSDEC June 11, 2026. This report summarizes the site conditions and activities performed from May 01, 2025 through May 01, 2026 for the monitoring, operation, and maintenance of the containment remedy for the Industrial Welding site in Niagara Falls, New York. This report is being submitted in accordance with the requirements and schedule listed in Site Management Plan.

Should you have questions, please contact me at (423) 508-2768. Should you have technical difficulties with the download/BOX process, please contact Lisa Harper (423) 336-4587 or ldharper@olin.com.

Sincerely,
OLIN CORPORATION

A handwritten signature in black ink, appearing to read "Adam B. Carringer", written in a cursive style.

Adam Carringer, CHMM
Associate Environmental Specialist



**Industrial Welding Site
Site No. 932050
2026 Periodic Review Report**

**Submitted: May 31, 2026
Revision: July 8, 2026**

Prepared for:

**New York State Department of Environmental Conservation
Division of Environmental Remediation
700 Delaware Avenue
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Prepared by:

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On behalf of:

**Olin Corporation
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1

Introduction

This Periodic Review Report (PRR) presents an assessment of Remedial Action Objectives (RAOs) for the Industrial Welding Site (IWS or “the Site”) in Niagara Falls, New York. IWS is currently listed in the Inactive Hazardous Waste Disposal Site Remedial Program as Site No. 932050 which is administered by New York State Department of Environmental Conservation (NYSDEC).

In accordance with the Site Management Plan (SMP), a PRR is provided annually to assure that the RAOs are maintained and that the Site Institutional Controls (ICs) and Engineering Controls (ECs) remain effective in protecting the public health and environment. This PRR discusses the protections in place and their effectiveness over the May 1, 2025–May 1, 2026, Certifying Period.

1.1 Site Location

IWS comprises three parcels. The original IWS (159.12-1-2.2) and the American Legion Post (ALP) property (159.12-1-10) are known as Operable Unit (OU) 2, and they lie immediately west of Veterans Drive, approximately 0.2 miles north of Buffalo Avenue in the City of Niagara Falls, New York. The third parcel (159.12-1-7), known as OU-3, was formerly called the Packard Road Parcel and lies immediately south of the ALP parcel. Gill Creek lies immediately to the east of Veterans Drive and, in 1998, was the site of a completed remedial action of what was known as OU-1. A map detailing the Site and OUs is presented in Figures 1-1 and 1-2.

1.2 Site History

The ownership and usage of the IWS property have varied over the past 60 years. The High Energy Fuels Division of the Olin Corporation (formerly Olin Mathieson Corporation) operated a research laboratory and pilot process plant at the property from 1952 until 1956. In 1956, the High Energy Fuels Division was disbanded, and the laboratory and plant buildings were demolished. The eastern side of the property was filled with fly ash, concrete debris, salt dirt (brine muds), and rubble from a building possibly contaminated with hexachlorocyclohexane (commonly known as benzene hexachloride [BHC]).

In 1966, Olin conveyed the IWS property to Niagara County Community College. This property was subsequently transferred to Niagara County. The Cerebral Palsy Association of Niagara County leases a building on property owned by Niagara

County. Olin reacquired the IWS from Niagara County in 1997. The ALP property, part of OU-2, has been used as a meeting and event hall in the past but has since been demolished.

1.3 Previous Investigations

Investigations were initiated at the IWS in 1981 when a soil sample containing mercury, BHC, and hexachlorobenzene was collected by the Niagara Department of Health from near the Niagara Cerebral Palsy Association property. Subsequently, Olin conducted a hydrogeological investigation in 1982 to determine the extent of the waste material, identify contaminants of concern, and evaluate the potential of contaminant migration through groundwater.

A Remedial Investigation (RI) was conducted between 1988 and 1989. RI activities included sampling soil, groundwater, sediment and surface water in Gill Creek, and ambient air vapor. Results confirmed the presence of mercury, BHC, and polycyclic aromatic hydrocarbons in Gill Creek sediment, in IWS groundwater in the overburden aquifer, and in IWS soil including areas outside of the footprint of the waste disposal area: the western portion of the IWS, on the Cerebral Palsy Association property, and on the ALP property. The RI results concluded that risks were posed by exposure to Gill Creek sediment (OU-1) and Site soils.

A final RI Feasibility Study (FS) was submitted to NYSDEC in July 1993. An addendum to the final FS was issued in November 1993.

The RI was performed in two phases. RI activities consisted of the following:

- Collecting soil samples to delineate the horizontal and vertical extent of contamination as well as to determine the physical properties of the underlying soils.
- Installing monitoring wells and piezometers to evaluate groundwater quality and determine the hydrogeologic properties of the IWS.
- Hydraulic monitoring of groundwater at the IWS and Gill Creek water levels to determine the groundwater flow direction, relationship to Gill Creek, and off-site migration.
- Collecting air samples to assess the existence of any airborne constituents.
- Collecting and analyzing sediments from catch basins adjacent to the IWS.

The data collected during the RI/FS were compared with NYSDEC Standards, Criteria, and Guidance for groundwater, drinking water, surface water, soils, and site-specific, risk-based criteria. Mercury, BHCs, and polycyclic aromatic hydrocarbons were determined to be the contaminants of concern.

1.4 Remediation Chronology

Predesign sampling and analysis was performed in 1997 and 1998. Additional soil sampling was conducted at OU-3 and evaluated to determine the appropriate remedy.

The selected remedy for the Site as stated in the 1994 Record of Decision consists of a multilayer final cover system over the main waste disposal area in OU-2 where contaminated soil outside the disposal area was excavated and contained under the cap, leachate collection and disposal, backfilling of excavated area with clean fill, and long-term monitoring and land use restriction at the Site. The sediments that were currently present at the Site under the temporary cover system were consolidated under the IWS final cover system.

The selected remedy for the Site as stated in the 2006 Record of Decision consists of the placement of an asphalt cover system detailed below.

There are two types of landfill cover systems (LCS) placed over the Site:

- The northern portion of OU-2, where waste is overlain by vegetated cover, has a 6-inch landfill cap made of clay, 40 mm high-density polyethylene geomembrane, 18 inches of well-drained soils, and 6 inches of seeded and mulched topsoil.
- The southern portion of OU-2 and OU-3 are covered with 6 inches of consolidated aggregate base, overlain by 2.5 inches of asphalt-concrete binder course and 1 inch of asphalt-concrete top course.

The final cover system installed over the main disposal area served to minimize the potential for contaminant migration from Site soils and prevent direct human exposure. Except for the ALP property and OU-3, which received asphalt-concrete cover, impacted soils outside the boundaries of the IWS was excavated and consolidated beneath the final cover system. Sediments from the Gill Creek Excavation and Restoration Project completed in 1998 were also consolidated beneath the final cover system.

Surface drainage from the IWS final cover system was captured by a perimeter drainage swale and was directed either to Gill Creek or through the existing combined storm sewer system located adjacent to the Site.

Based on the results of the predesign sampling and analysis, impacted soils from areas outside the IWS were excavated and consolidated under the IWS final cover system.

The remedial design of the IWS final cover system was based upon the estimated volume of soils and sediments that were consolidated. The material consolidated

beneath the IWS cover system was approximately 2,900 cubic yards of impacted soils and 6,900 cubic yards of sediments from the eastern perimeter. The volume of sediments was based on a survey of the consolidated material placed on IWS in 1998. The limits of excavation are based on the RI/FS sampling and the results of the predesign field activities. An asphalt cover was installed at The ALP and the OU-3 subsequent to the IWS cap construction.

Further details pertaining to the remedial actions on the IWS can be found in the updated SMP dated February 2025.

2

Remedy Performance, Effectiveness, and Protectiveness

The work performed for the IWS during the reporting period was reviewed and found to be in accordance with the approved Institutional and Engineering, Monitoring and Sampling and Operation and Maintenance (O&M) Plans presented in the SMP (WSP 2025). Activities to support the remedy performance, effectiveness and protectiveness are detailed in Sections 3 and 4 below.

3

Institutional Controls/Engineering Controls Plan

Because remaining contamination exists at the IWS, IC/ECs are required to protect human health and the environment. Below is a brief summary of the IC/EC Plan, which describes the procedures for the implementation and management of all IC/ECs at the Site. Details of the IC/EC Plan can also be found in the SMP.

3.1 Institutional Controls/Engineering Controls Requirements

A series of ICs is required by the SMP to: (1) maintain and monitor EC systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the Site to existing uses only. Details of ICs are outlined in the SMP.

ECs at the Site include the following:

- Two types of landfill cover systems (LCS): vegetated cover in the northern portion of OU-2 and asphalt cover in the southern portion of OU-2 and OU-3 (see Section 1.4). Both of which are designed to restrict infiltration and promote runoff.
- A Leachate Capture and Recovery System (LCRS) to capture perched groundwater from material under the northern cover.
 - The LCRS system consists of a 4-inch HDPE trench drain line installed in coarse stone and wrapped in geotextile and a 12-inch recovery well housed within an enclosure equipped with a submersible pump for discharge to the City of Niagara Fall sanitary sewer.
- Surface water drainage system that discharges into Gill Creek.
- A chain link fence to secure the Site from unauthorized access.

ICs at the Site include the following:

- Soil Management Plan
- Monitoring Plan
- Operations & Maintenance (O & M) Plan

Details on the operation and maintenance of the ECs are provided in O&M Plan included with the SMP.

3.2 Assessment of Institutional Controls/Engineering Controls

Based on semiannual inspections, the LCS remains active and intact. The LCRS and surface water drainage system remains effective for the entire Site. Inspection documentation can be reviewed in **Appendix A**.

Currently, there are no outstanding maintenance items to be addressed. No excavations, change of use, or groundwater use occurred during the Certifying Period.

3.3 Certification

IC/EC certification is included in **Appendix B**.

4

Monitoring and Sampling Plan Compliance Report

4.1 Components of Monitoring and Sampling Plan

Operation, maintenance, and monitoring activities performed included:

- Sitewide inspection of IC/ECs (see Section 3).
- Monitoring of the LCS (see Section 3).
- Remedial System Sampling – semiannual collection from surface water discharge (SD-1) and annual collection of the LCRS discharge (MS-1).
- Post-Remediation Media Monitoring and Sampling – semiannual monitoring well sampling of two downgradient monitoring wells (MW-1 and MW-2) in accordance with the SMP to evaluate the effectiveness of the remedial system. Water levels of the two monitoring wells and six piezometers are included to evaluate groundwater flow at the Site.

4.2 Summary and Comparison to Remedial Objectives

Monitoring and sampling were performed on a semiannual basis. A sitewide inspection of all IC/ECs, including the LCS, was conducted during September 2025 (fall) and March 2026 (spring) monitoring and sampling events. Annual sample collection of the LCRS discharge was performed in November 2025. A summary of deficiencies that were observed as documented in the Inspection Report Forms and Photolog in **Appendix A** are as follows:

- Moderate cracks with vegetation in slab around the asphalt cover system near the main gate.
- Cracks in slab around SP-2.
- Cracks in slab around P4R.
- The entire concrete slab around P5R is not secured in place.
- The well lock was rusted shut for MW2, the lock was removed and replaced with Olin Red Lock.
- Top of security fence was found to not be connected and multiple points along the base had breaches.

Appendix E presents the analytical results for the two downgradient monitoring wells and surface water discharge point during fall 2025 and spring 2026. Also included are the analytical results from the November 2025 sampling of the LCRS discharge.

Results are compared to New York State Part 703 Groundwater Quality Standards or Guidance Values as applicable. Non-detect results are reported as less than the laboratory method reporting limits.

4.2.1 Groundwater Results

Semi-volatile organic compounds (SVOCs)

No SVOCs were detected for all MW-1 and MW-2 samples during the fall 2025 and spring 2026 events.

Beta-BHC

In the spring 2026, MW-2 beta-BHC had a detection of 0.22 µg/L, which exceeded the Class GA water quality standards of 0.04 µg/L.

Mercury

In the spring 2026, MW-2 had a detection of mercury with a concentration of 16.3 µg/L, which exceeded the Class GA standards water quality standards of 0.7 µg/L. Mercury concentrations appear to be trending toward historical concentrations observed during previous spring sampling events. Historical detections of mercury in MW-1 and MW-2 are presented in **Appendix C**.

Groundwater analytical detections are summarized in Table 4-1, showing analytes detected in MW-1 and MW-2 in the 2025-2026 Certifying Period. Comprehensive results can be found in **Appendix E**.

4.2.2 Surface Water Discharge Results

The fall 2025 data showed detections of mercury and beta-BHC in the surface water sample which were 1.59 µg/L (exceeding NYSDEC Class C Fresh Water Standards of 0.0007 µg/L) and 0.05 µg/L (exceeding NYSDEC Class C Fresh Water Standard of 0.007 µg/L) respectively. The only surface water detections in the spring 2026 event was beta-BHC with a value of 0.079 µg/L, which exceeded the standard of 0.007 µg/L.

Surface water analytical detections are summarized in Table 4-1, showing analytes detected in all samples in the 2026-2026 Certifying Period. Comprehensive results can be found in **Appendix E**.

4.2.3 Leachate Capture and Recovery System Discharge Results

The November 2025 results detected compounds: trichloroethene, BHC and mercury. However, none of the concentrations exceed the limits set forth by the Niagara Falls Water Board wastewater discharge permit. A summary of the results are presented in Table 4-2, and annual Discharge Monitoring Report is presented in **Appendix D**.

4.2.4 Groundwater Elevations

Water elevation data collected from the piezometers and standpipes were used to confirm groundwater within the capped area remains at or below the LCRS drainage pipe and is maintained by current operation and maintenance activities. Most of spring 2026 elevations indicate slightly higher water table within the capped area compared to fall 2025. The most significant difference in water level was in piezometer 4 which was dry in fall 2025 but had five inches of water in spring 2026. The lack of water in both standpipes (SP1 and SP2) confirms capped area groundwater continues to be captured by the LCRS and no blockages are present. Water level elevations from fall 2025 and spring 2026 are provided in **Appendix A** and are shown with the LCRS drainage pipe elevations (shown as standpipe elevations) in Figures 4-1 and 4-2.

4.3 Deficiencies

As noted in section 4.2, minor engineering controls on site are in need of repair but are not compromising the effectiveness of the remedy. These deficiencies will be addressed during the next Certifying Period.

4.4 Recommendations for Changes

No recommendations. Conditions at the Site appear to be stable.

5

Operation and Maintenance Plan Compliance Report

5.1 Components of the Operation and Maintenance Plan

Operation, maintenance, and monitoring activities to be performed semiannually include:

- Inspection of security fencing for evidence of vandalism, missing or deteriorated warning signs, fencing member failure or degradation, and soil erosion.
- Inspection of the cover for settlement, surface erosion, vegetation, and asphalt-concrete conditions.
- Inspection of the surface water drainage and erosion control system for erosion, settlement, obstructions, and damage to vegetative-lined swales, drainage piping, and inlets.
- Inspection of the LCRS for proper pump operation, condition of cleanouts and pipes, and presence of standing water and debris.
- Inspection of the access ways for surface deterioration and erosion of shoulders.
- Maintenance of records for Site inspections and monitoring.

Engineering and institutional control boundaries/features are presented in **Figure 5-1**.

5.2 Operation and Maintenance Summary

Inspection reports, sampling logs, and site activities reports are presented in **Appendix A**. Inspections are conducted per the items listed on the Site Activities Report format. Information entered into these forms includes the inspector's name, date, item inspected, and any comments. The inspector indicates whether the condition of each item was acceptable or unacceptable per the requirements of this O&M Plan. The completed site activities reports are maintained at Olin Environmental Remediation offices in Cleveland, Tennessee.

The inspection of the LCRS and surface water drainage system was performed concurrently with inspection of the capped areas. No components of the LCRS and

surface water drainage system were found to be malfunctioning; therefore, repairs or replacements were not identified

The capped area will be mowed annually after August 15th as recommended by NYSDEC to prevent establishment of woody vegetation. The capped area functions as designed and complies with the O&M Plan.

LCRS discharge volumes and concentrations to the City of Niagara Falls Publicly Owned Treatment Works (POTW) did not exceed permit limits during the Certifying Period. The most recent annual Discharge Monitoring Report to the City Publicly Owned Treatment Works is included in **Appendix D**.

5.3 Evaluation of Remedial Systems

All components are performing as designed.

5.4 Operation and Maintenance Deficiencies

None. There are no major outstanding maintenance items that would affect the efficiency of the remedy outside the minor routine repairs that need to be addressed in Section 4.2.

5.5 Conclusions

The O&M system is operating as designed and does not require additions or modifications at this time.

6

Conclusions and Recommendations

6.1 Compliance with Site Management Plan

Based on information provided in Sections 3, 4, and 5, Olin has adhered to the requirements outlined in the SMP. No new exposure pathways were identified at the Site, and additional plans or modifications are not necessary.

As noted on the previous 2025 PRR, NYSDEC requested to include two wells (PRMW-1 and PRMW-2) on site figures in future PRRs, these were included in the figures of this PRR. These particular wells are not specifically called out in the SMP but are noted in the 2006 ROD.

6.2 Remedy Effectiveness

The groundwater elevation data indicate that groundwater within the capped area is consistent with historical data and is being maintained by current O&M activities. The groundwater chemistry at the monitoring wells has been historically consistent across sampling events. No semi volatile organic compounds were detected at concentrations above the New York State Class GA standards in the monitoring wells surrounding the capped area.

Overall, no appreciable difference in mercury concentrations were noted for MW-2 during this time frame in compared to historical trends. Historically, mercury spikes have been detected but returned to historic levels in the following years. Over the past 25 years, higher concentrations generally occurred during the fall events, with exception of the spring 2020 event. Whenever there were elevated levels in the fall, the results generally reduce within the historic ranges during the next sampling event. The fall outlier will be closely monitored in future sampling events. The trends for mercury concentrations are illustrated by the graph and data included in **Appendix C**.

Based on the data developed to date, the remedy has been effective in attaining the remedial objectives.

6.3 Recommendations

The O&M activities, inspections, and sampling activities remain consistent and within expected results. Remedial measures continue to remain effective over a

long-term monitoring program. The IWS does not pose an immediate threat to human health or the environment with the current remedy in place.

Hydraulic control continues to be maintained on Site, and recent groundwater and surface water discharge data are generally non-detect or below Guidance Values.

Additionally, NYSDEC requested further information about a well that was observed to be in disrepair during a 2024-2025 Certifying Period site visit. This well is located between Veterans Drive and Gill Creek in line with P-3R and SP-2. It was concluded that the well observed was identified as a preconstruction piezometer and is no longer utilized at the site. Olin plans to decommission and abandon the well in the next Certifying Period.

6.4 Future Submittals

This report will continue to be submitted annually, typically on or around May 31 of each year, as dictated by NYSDEC.

7

References

WSP USA, Inc. (WSP). 2025. *Site Management Plan, Industrial Welding*, Niagara Falls, New York, January 2025.

Tables

Table 4-1: Groundwater and Surface Water Analytical Results
Industrial Welding, The Olin Corporation
Niagara Falls, New York

Location ID: Sample ID: Sample Date:				MW-1 IWS-MW-1-091625 9/16/2025		MW-1 IWS-MW1-032426 5/24/2026		MW-2 IWS-MW-2-091625 9/16/2025		MW-2 IWS-MW2-032426 5/24/2026				SD-1 IWS-SD1-091625 9/16/2025		SD-1 5/24/2026	
Method	Chemical Name	Screening Criteria ⁽¹⁾	Units									Screening Criteria ⁽²⁾	Units				
SW7470	Mercury	0.7	µg/L	0.2	U	ND		0.2	U	16.3		0.0007	µg/L	1.59		ND	
SW8081B	beta-BHC	0.04	µg/L	0.048	U	ND		0.048	U	0.22		0.007	µg/L	0.05		0.079	

Notes:

ug/l = micrograms per liter

Bold values denote detections

Shaded cells exceed NYSDEC standard.

-- = analyte not tested

NA = not regulated/no available criteria

Only analytes detected in at least one sample during the 2025 - 2026
certifying period are shown.

Data Qualifier Definitions:

J = Estimated based on QC criteria or detected between the Method
Detection Limit (MDL) and the Reporting Limit (RL)

U = Not Detected above the associated Reporting Limit

1. New York State Department of Environmental Conservation,
Technical and Operational Guidance Series Memorandum #1.1.1:
Ambient Water Quality Standards and Guidance Values and
Groundwater Effluent Limitations, 1998 (with updates), Class GA
Groundwater Standards and Guidance Values.

2. New York State Department of Environmental Conservation,
Technical and Operational Guidance Series Memorandum #1.1.1:
Ambient Water Quality Standards and Guidance Values and
Groundwater Effluent Limitations, 1998 (with updates), Class C Fresh
Water Standards and Guidance Values.

Table 4-2: Leachate Control and Recovery System Analytical Results
Industrial Welding, The Olin Corporation
Niagara Falls, New York

Parameter	Method	Results (mg/l)	Flag	Results (lb/day)	Daily Max Discharge Limits (lb/day)
Total Suspended Solids	SM 2540 D	8.6		0.014	15
Dissolved Organic Carbon	SM 5310 B	3.1		0.005	10
Acetone	EPA 624.1	0.005	U	0.000008	0.01
Dichloroethanes	EPA 624.1	0.002	U	0.000003	0.01
Trichloroethylenes	EPA 624.1	0.00254		0.000004	0.01
BHCs total	EPA 608.3	0.002706	J	0.0000043	0.001
Mercury	EPA 245.1	0.00117		0.0000019	0.008

Notes:

mg/l = milligrams per liter

Bold values denote detections

lb/day = pounds per day

U = Analyte was analyzed but not detected

J = Estimated value

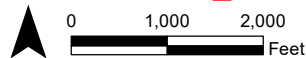
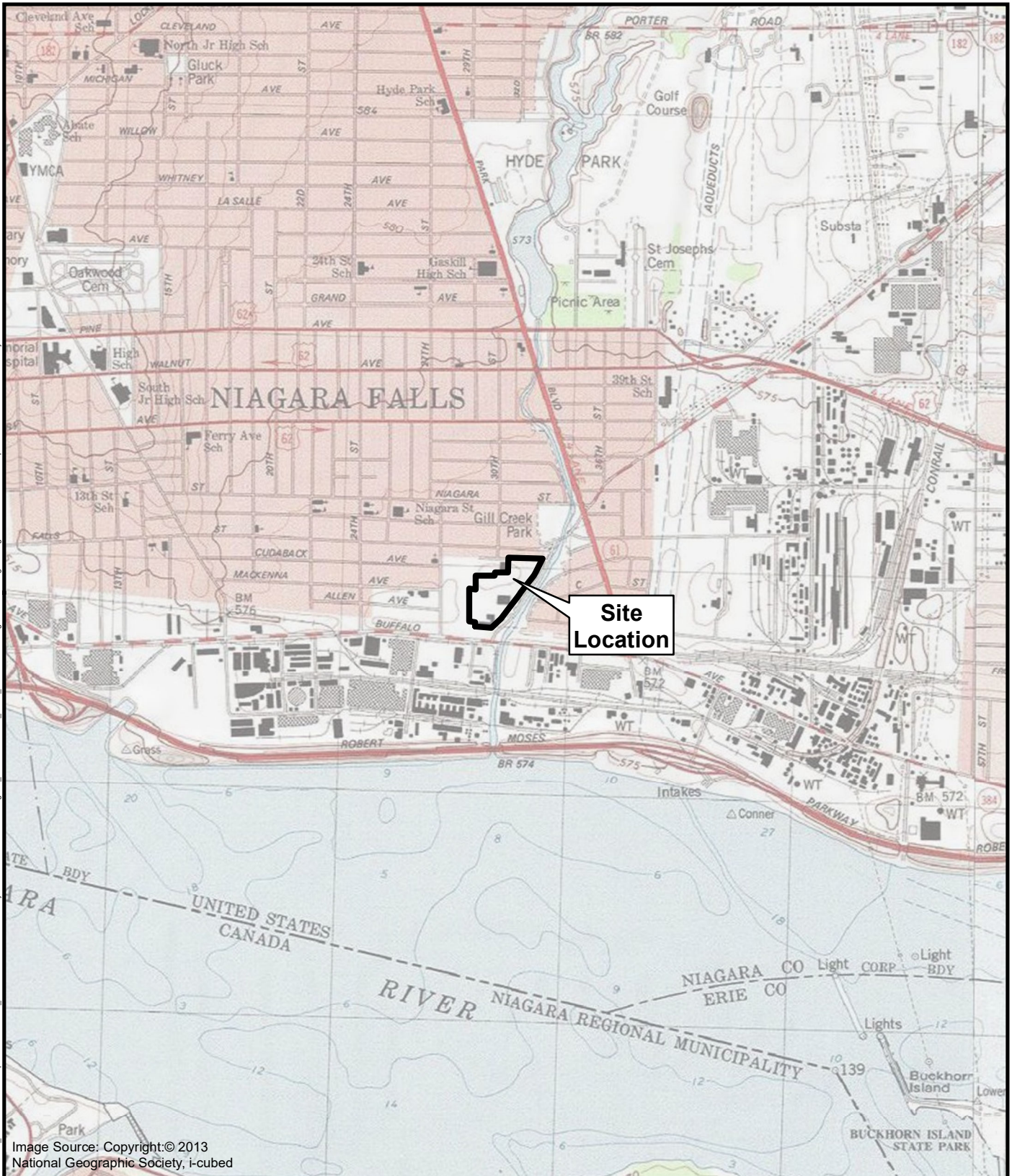
Results (lb/day) = Results (mg/l) X Flow (Gal/Day) X 0.00000834

Flows calculated based
on avg daily flow for year
rather than for sampling
month, due to flow
variability and sampling
month dry weather
conditions

ICU PERMIT NAME	Olin Corporation - Industrial Welding Site
ICU PERMIT NUMBER	ICU - 23
SAMPLE LOCATION	MS#1
DATE SAMPLED	11/4/2025
ANALYSIS DATES	November 8-12 2025
ANALYTICAL LABORATORY	ALS Environmental

Figures

Document: P:\Projects\Olin Industrial Welding\4.0_Deliverables\4.2_Work_Plans\Site Management Plan\Figures\Figure 1-1_Site_Location.pdf 5/28/2024 11:37 AM jennifer.walker



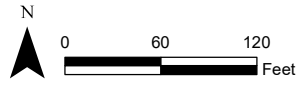
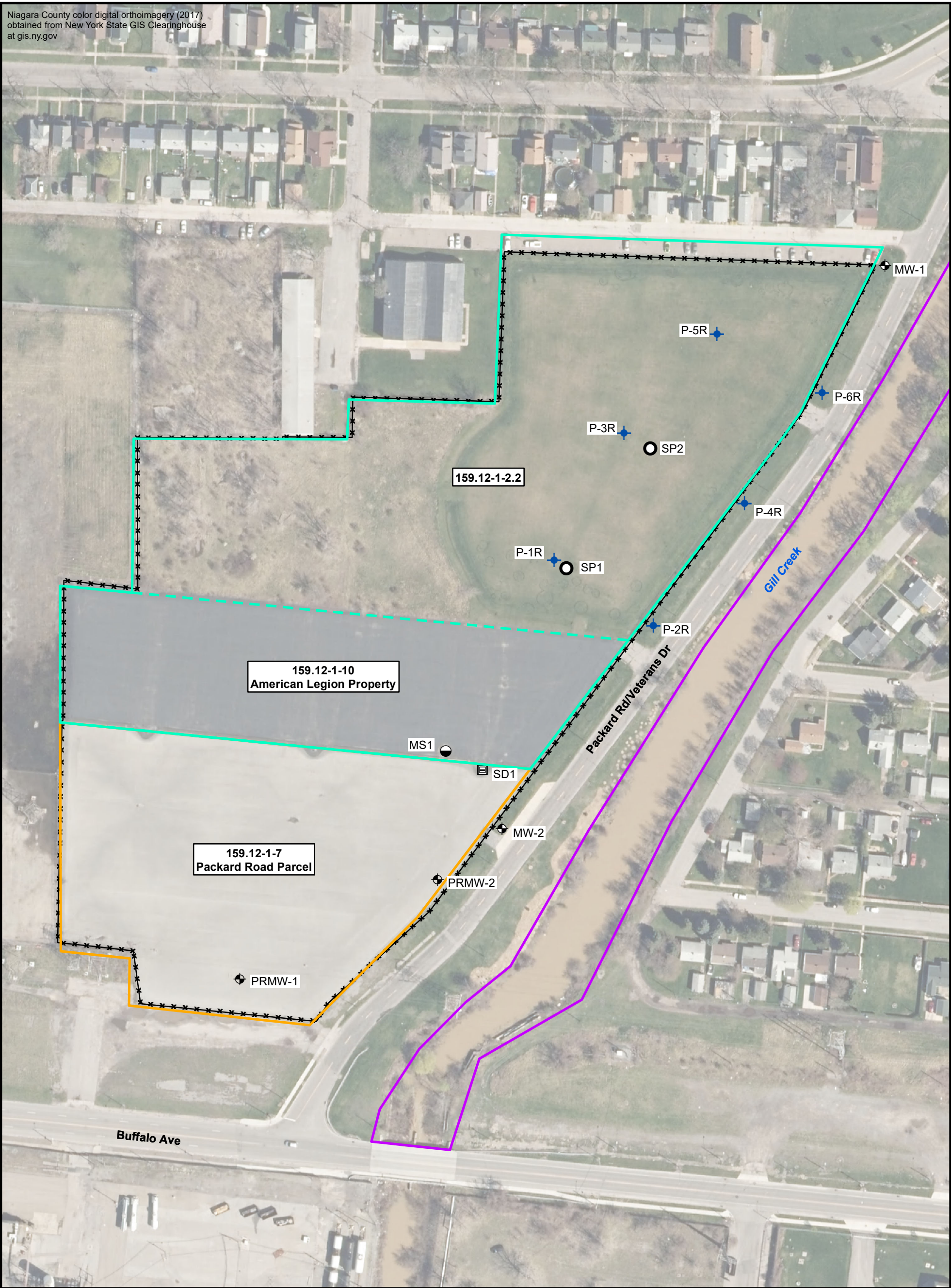
Prepared/Date: JSW 5/28/24

Checked/Date:

Figure 1-1
Site Location

Periodic Review Report
Industrial Welding
The Olin Corporation
Niagara Falls, New York

Niagara County color digital orthoimagery (2017)
obtained from New York State GIS Clearinghouse
at gis.ny.gov

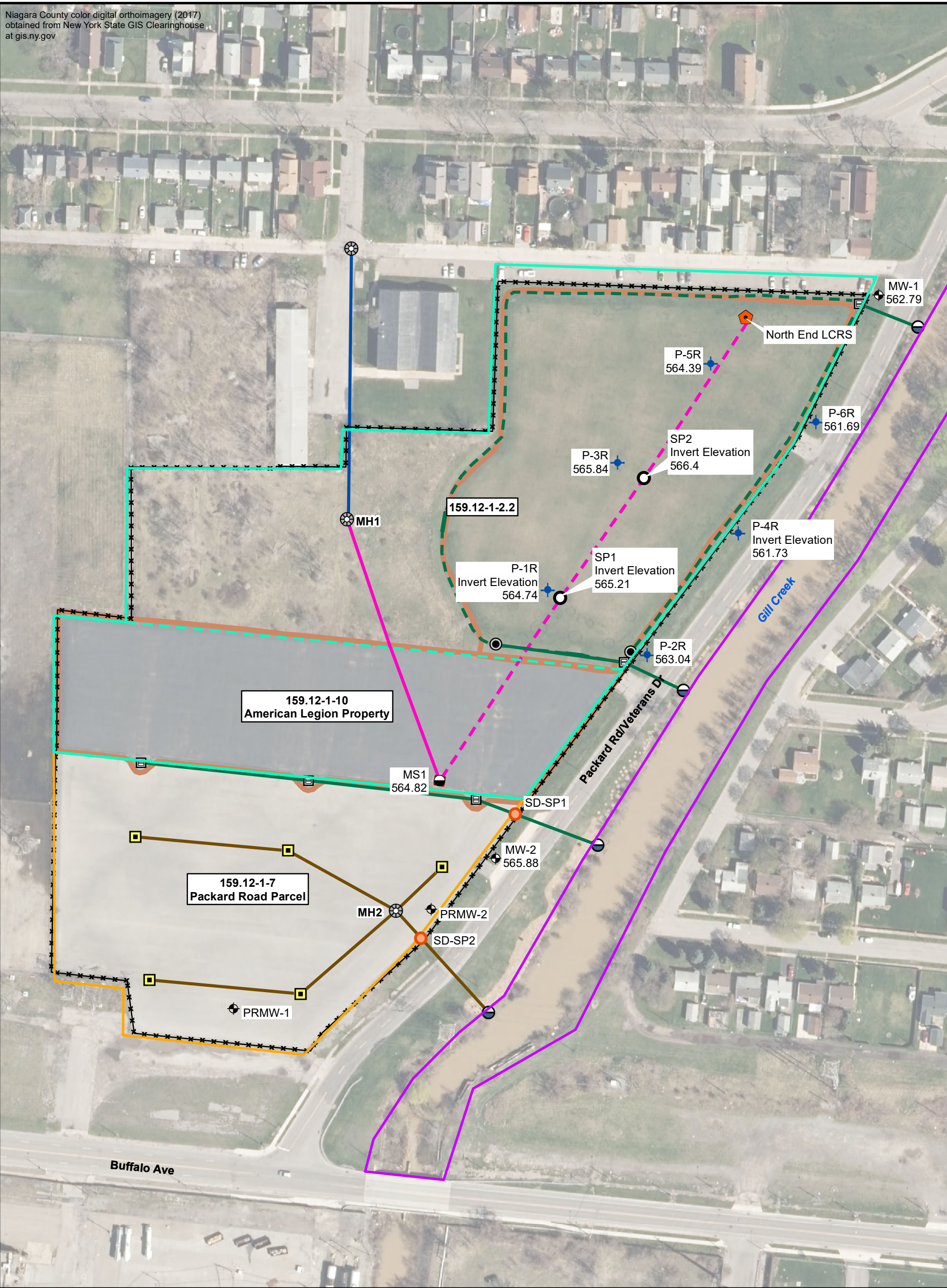


Prepared/Date: KH 5/22/2026

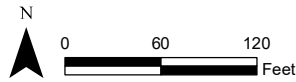
	Monitoring Well		OU-1
	Recovery Well		OU-2
	Piezometer		OU-3
	Catch Basin		Perimeter Fence
	Standpipe		

Figure 1-2
**Site Layout and
Sampling/Monitoring Locations**
Periodic Review Report
Industrial Welding
The Olin Corporation
Niagara Falls, New York

Niagara County color digital orthoimagery (2017)
obtained from New York State GIS Clearinghouse
at gis.ny.gov



Document Path: L:\PROJECTS\Olin_Industrial_Welding\Maps\MXD\Report\Groundwater_Contours_2025_04\Figure4-1_Groundwater_Elev_Fall2025.mxd 6/29/2026 10:40 AM

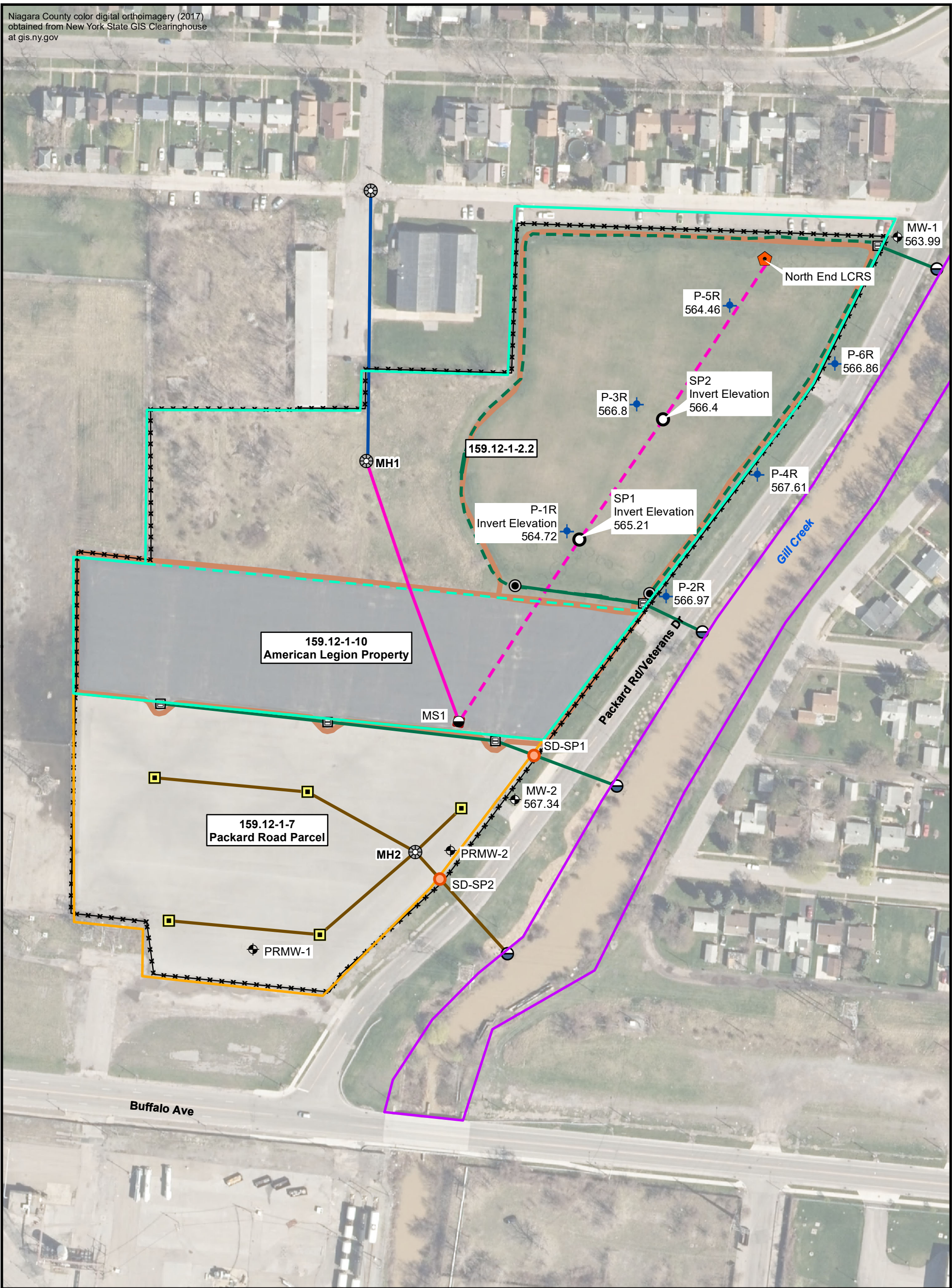


Prepared/Date: BGM 6/29/2026

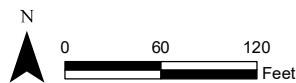
Monitoring Well	OU-1	Catch Basin	Drain Pipe
Recovery Well	OU-2	Cleanout	Drainage Ditch
Piezometer	OU-3	Culvert	LCRS Discharge Pipe
Unidentified Standpipe	Clay Barrier	Drop Inlet	LCRS Trench Drain
	LCRS Enclosure	Manhole	Combined Sewer
		Outfall/Headwall	Storm Drain
		Standpipe	Perimeter Fence

Figure 4-1
Groundwater Elevation Map
Fall 2025
Site Management Plan
Industrial Welding
The Olin Corporation
Niagara Falls, New York

Niagara County color digital orthoimagery (2017)
obtained from New York State GIS Clearinghouse
at gis.ny.gov



Document Path: L:\PROJECTS\Olin_Industrial_Welding\Maps\MXDs\Report\Groundwater_Contours_2025_04\Figure4-2_Groundwater_Elev_Spring2026.mxd 6/29/2026 10:38 AM

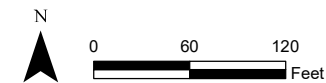
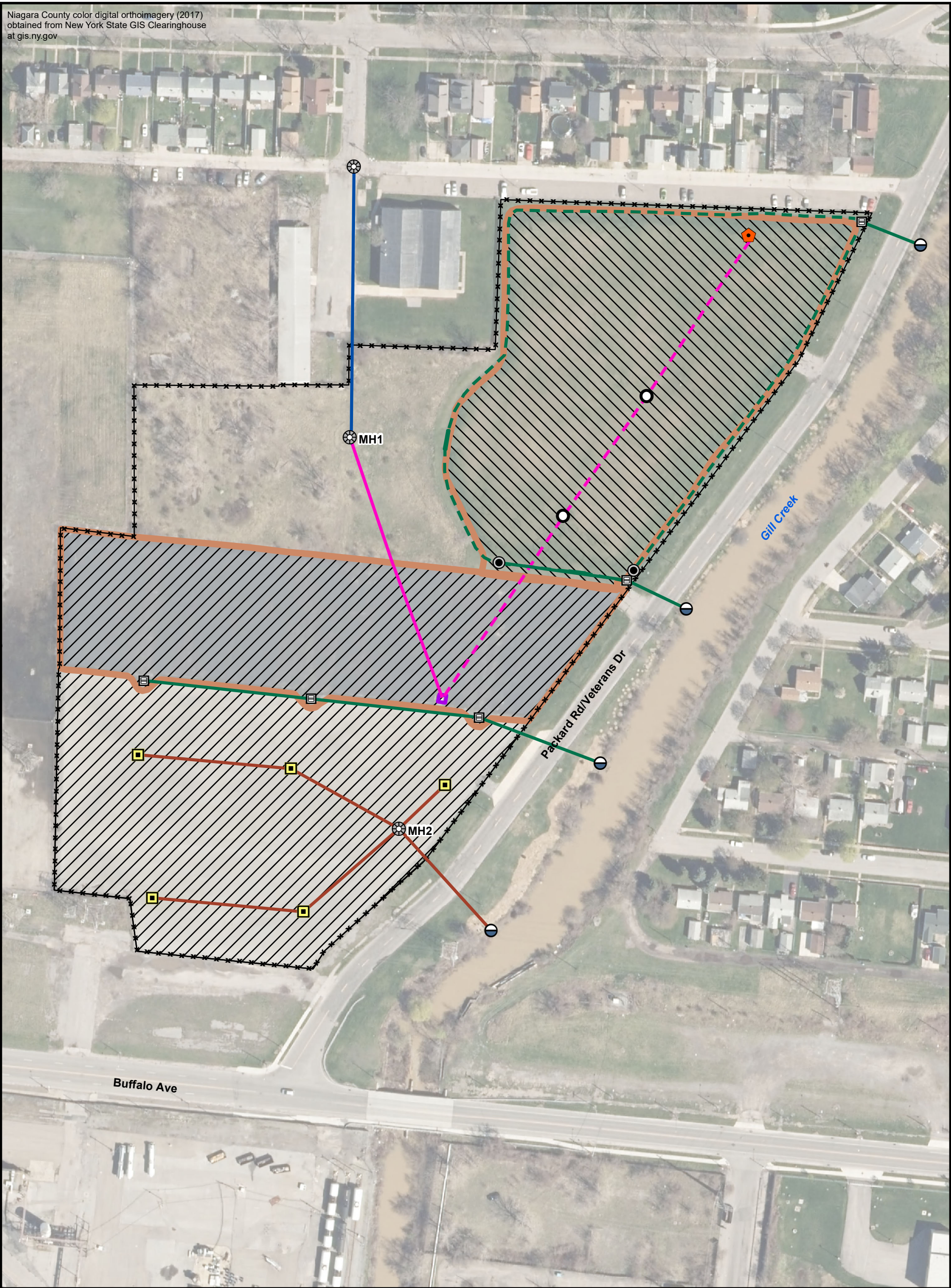


Prepared/Date: BGM 6/29/2026

Monitoring Well	OU-1	Catch Basin	Drain Pipe
Recovery Well	OU-2	Cleanout	Drainage Ditch
Piezometer	OU-3	Culvert	LCRS Discharge Pipe
Unidentified Standpipe	Clay Barrier	Drop Inlet	LCRS Trench Drain
	LCRS Enclosure	Manhole	Combined Sewer
		Outfall/Headwall	Storm Drain
		Standpipe	Perimeter Fence

Figure 4-2
Groundwater Elevation Map
Spring 2026
Site Management Plan
Industrial Welding
The Olin Corporation
Niagara Falls, New York

Niagara County color digital orthoimagery (2017)
obtained from New York State GIS Clearinghouse
at gis.ny.gov



Prepared/Date: JSW 5/28/24

Checked/Date:

- Catch Basin
- Cleanout
- Culvert
- Drop Inlet

- Manhole
- Outfall/Headwall
- Standpipe
- Clay Barrier

Legend

- Asphalt Cover
- Northern Cover
- LCRS Enclosure
- Drain Pipe
- Drainage Ditch
- LCRS Discharge Pipe
- LCRS Trench Drain
- Combined Sewer
- Storm Drain
- Perimeter Fence

Figure 5-1
Engineering and Institutional
Control Boundaries
Periodic Review Report
Industrial Welding
The Olin Corporation
Niagara Falls, New York

A

Field Forms (Inspections, Sampling and Elevations) and Photo Log

Fall 2025

FIELD DATA LOG FOR WATER ELEVATION MEASUREMENTS
Industrial Welding Site, Niagara Falls, New York

Name of Sampler: CORBY Haynes

Organization: OLW

Weather: Clear

Water Level Indicator Make: Solinst Model: 100 Serial No.: 604541

Location	Location ID	Date/Time Measured	Top of Riser Elevation (ft msl)	Measured Depth to Water (Feet Below Top of Riser)	Water Elevation (ft msl)
LCRS Stand Pipe	SP1	0959 9/16/25		16.85	
LCRS Stand Pipe	SP2	1017 9/16/25		14.31	
LCRS Recovery Well	LCRS1	0845 9/16/25	573.43	8.64	
Cover Area Piezometer	P1R	1002 9/16/25	582.10	17.36	
East Easement Piezometer	P2R	0953 9/16/25	572.17	9.13	
Cover Area Piezometer	P3R	1015 9/16/25	581.90	16.06	
East Easement Piezometer	P4R	0950 9/16/25	571.09	9.36	
Cover Area Piezometer	P5R	1017 9/16/25	578.46	14.09	
East Easement Piezometer	P6R	0948 9/16/25	570.91	9.22	
NE Easement Monitoring Well	MW1	0944 9/16/25	570.87	8.08	
SE Easement Monitoring Well	MW2	0920 9/16/25	572.76	6.87	

dry
dry 3 cracks
slab

dry
low point

dry 3 cracks
slab

entire slab
moves at least
inches any direction

COMMENTS:

SEMI-ANNUAL INSPECTION REPORT FORM

DATE:

REPORT NO.:

QUESTIONS	RESPONSE		COMMENTS AND RECOMMENDATIONS
	YES	NO	
1. Security Fence			
Is damage evident? If Yes, describe the type of damage(s), and indicate the location(s) the attached map.		✓	
Are warning signs missing or damaged? If Yes, describe the type of damage and indicate the location(s) on the attached map.		✓	
Is erosion evident under chain-link sections or around posts? If Yes, describe the type of erosion (rills, gullies, valleys, washouts), record approximate dimensions (length, width, depth) and indicate location(s) on the attached map.		✓	
Has failure of any fencing members occurred? If Yes, describe the failure(s) and indicate location(s) on attached map.		✓	
2. Vegetative Soil Cover			
Is settlement or standing water evident? If Yes, describe the degree of settlement(s) (slight, moderate, significant), record approximate dimensions, and indicate the location(s) on the attached map.		✓	
Is erosion evident? If Yes, describe the type of erosion (rills, gullies, valleys, washouts, slope failure), record approximate dimensions (length, width, depth) and indicate location(s) on the attached map.		✓	
Is vegetation distressed or are bare areas evident? If Yes, describe the type of disorder (distressed, sparsely vegetated, bare), record approximate dimensions and indicate location(s) on the attached map.		✓	
Is any other damage evident? If Yes, describe the type of damage(s) and indicate the location(s) on the attached map.		✓	
Are obstruction(s) (brush, debris, timber, leaves, sediment) interfering with the proper functioning of swales? Outlets from swales? If Yes, describe the type(s) of obstruction(s) and indicate the location(s) on the map attached. Is sediment deposited in swales impeding drainage? If Yes, record approximate dimensions and indicate location(s) on the attached map.		✓	

QUESTIONS	RESPONSE		COMMENTS AND RECOMMENDATIONS
	YES	NO	
3. Surface Water Drainage System			
Are catch basin(s) damaged? If Yes, describe the catch basin inspected, conditions observed (spalling, cracking, exposed reinforcement, joint separation) and indicate location(s) of damaged catch basin(s) on the attached map.		✓	
Are obstruction(s) (brush, debris, leaves, sediment) interfering with the proper functioning of the catch basin(s)? If Yes, describe the type(s) of obstruction(s) and indicated the location(s) on the attached map.		✓	
Is erosion evident? If Yes, describe the drainage structure inspected (swale, outfall) the type of erosion (rills, gullies, valley, washouts, slope failure), record approximate dimensions (length, width, depth) and indicate location(s) on the attached map.		✓	
Is sediment deposited in drainage pipe(s) deeper than 1/4 of the pipe diameter (shown on the contract drawings)? If Yes, record approximate dimension and indicate locations on the attached map.		✓	
Is structural damage to headwalls evident? If Yes, describe the type of damage (upheaval, cracking, undermined, overturned, fractured, broken) and indicate damaged structures on the map.		✓	
Have stones been dislodged at rip-rapped drainage outlet aprons? If Yes, record approximate dimensions and indicate location(s) on the attached map.		✓	
4. Asphalt Concrete Cover System			
Is pavement distress evident? If Yes, describe (cracking, pothole(s), upheaval, failed patch), record the approximate dimensions (length, width, and depth) and indicate location(s) on the attached map.	✓		Small cracks close to main gate some vegetation in cracks
Is settlement or standing surface water evident? If Yes, describe the degree of settlement(s) (slight, moderate, significant), record approximate dimensions and indicate the location(s) on the attached map.		✓	
Are obstructions present in the catch basins? If Yes, describe the obstacle(s) (leaves, brush, sediment) and indicate the location(s) on the map attached.		✓	
Is sediment deposited in swale(s) impeding drainage? If Yes, record approximate dimensions and indicate location(s) on the map attached.		✓	

QUESTIONS	RESPONSE		COMMENTS AND RECOMMENDATIONS
	YES	NO	
5. Leachate Collection and Recovery System			
Is standing water present at the LCRS cleanout? If Yes, describe the depth of the standing water.		✓	
Is there evidence of any pipes or valves leaking at the recovery well? If Yes, describe the magnitude of the leak (drip, steady discharge, single overflow) and tag location(s) of leak(s).		✓	
Is leachate extraction well pump operating properly based on visual inspection? If No, describe the condition.	✓		
Is damage or degradation evident at the extraction well or stand pipe(s)? If Yes, describe the type of damage (vent/well riser cover missing, vent/well riser cracked, overturned, leaning, broken) and indicate damaged vent/well riser(s) on the map attached.		✓	
Is damage or degradation evident at these system components? Extraction well pump and associated piping? Leachate collection pipe cleanout?		✓	

Date: 9-16-25

INSPECTOR: Stue Walsh

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: MW-1

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: MW-2

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS: well would not unlock. we tried wd-40 but well wouldn't open we replaced lock with olive red lock.

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: SP-1

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: SP-2

Date: 9-16-25

INSPECTOR: Steve Walz

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☐	☒	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

3 cracks in slab

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: PIR

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P2R

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P3R

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P4R

Date: 9-16-25

INSPECTOR: Steve Wicks

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☐	☒	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

3 cracks in slab

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P5R

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

ENTIRE slab moves 2" in each direction

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P6R

Date: 9-16-25

INSPECTOR: Steve Walsh

YES	NO	
☒	☐	Is the wellhead clearly labeled?
☒	☐	Is there a lock on the well?
☒	☐	Is the concrete pad around the well in good condition
☐	☒	Has there been physical damage to the well?
☒	☐	Is the wellhead protected from standing water?
☐	☒	Is there evidence of frost heave on the protective casing?
☐	☒	Is there settlement around the well?
☒	☐	Is the well depth consistent with the installed depth?

COMMENTS:

OLIN INDUSTRIAL WELDING SITE Flow Meter Calibration

1. Recirculate water back into the well for 1 minute.
2. Record flow rate that is on meter.
3. Using valves in the system, redirect the water flow to the sample port and let it flow back down into the well.
4. Using a stop watch or a watch with a second hand, get ready to time how long it takes to fill a 5 gallon bucket by directing the sample port hose into it while starting the stop watch.
5. Record the time to fill the bucket.
6. Shut down the system, return all valves to normal operation mode, set system to AUTO.

Enter data below:

DATE	RECIRCULATION RATE (In GPM)	TIME TO FILL 5 GALLON BUCKET (In Seconds)	ESTIMATED ACTUAL FLOW (In GPM) #DIV/0! GPM
9-16-25	5.8	56.40 minutes ~~5.1~~ 5.1	62 GPM

TECHNICIAN: Steve Walsh

* Differences between Recirculation Rate (on meter readout) and Estimated Actual Flow Rate, may be attributed to reduction in the diameter of the sample port hose (3/8") when flowing through the sample port, as opposed to flow through the recirculation piping (3/4" pipe).

INDUSTRIAL WELDING SITE
NIAGARA FALLS, NY
GROUNDWATER SAMPLING FIELD PARAMETERS
FIELD INSTRUMENTATION CALIBRATION FORM

DATE: 9-16-25 SAMPLING EVENT: IWS

PERSON CALIBRATING METER: Corey Maynes

INSTRUMENT USED:

MANUFACTURER: Acotech YST Hanna rent

MODEL NUMBER: Cr7 22024197 YSI 205101930 PH 1149094N

HGS NUMBER: ID042903

DATE OF MANUFACTURE: _____

CALIBRATION STANDARDS USED:

STANDARD 7.00 METER READ: 7.00

STANDARD 4.00 METER READ: 4.02

STANDARD 10.00 METER READ: 10.01

CALIBRATION SOLUTION EXPIRATION DATE: 1/31/27

	PRE CALIBRATION READINGS	POST CALIBRATION READINGS
TEMPERATURE (°F or °C):	_____	_____
pH:	<u>6.98, 4.05, 10.03</u>	<u>7.00, 4.02, 10.01</u>
pHmv:	_____	_____
OX-RED POT (ORPmv):	<u>~~213~~ 1.0 ²⁴ 9-16-25</u>	<u>~~220~~ 2 ²⁴ 9-16-25</u>
CONDUCTIVITY (ms/cm):	<u>1.378</u>	<u>1.416</u>
TURBIDITY (NTU):	<u>0.1, 21, 105, 209</u>	<u>0.1, 20, 100, 200</u>
mg/L DO:	_____	_____
% DO:	_____	_____

OTHER CALIBRATION COMMENTS: Turb exp 9/26 ORP ex 1/26

DO ex 4/26

FIELD DATA LOG FOR GROUNDWATER SAMPLING
Industrial Welding Site, Niagara Falls, New York

Well ID: MW-1 Date: 9-16-25
 Sampler(s): Steve Walsh, Michael Frey, Corey Haines
 Weather: _____
 Calibration of Field Equipment:

pH Meter: Date: 9-16-25 Time 0800
 Spec. Conduct. Meter: Date: 9-16-25 Time 0805
 Turbidity Meter: Date: 9-16-25 Time 0810

Purging Method/Sampling Method: peristaltic pump

Sample ID: DWS-MW-1-091625

Well Purging Data:

Time	Water Level (Feet Below Top of Riser)	Volume Purged (Liters)	pH (Std. Units)	Specific Conductivity (μ mhos/cm)	Temp. (°C)	Turbidity (NTUs)
1010	8.08	1	7.02	1.164	20.8	9.3
1015	8.41	2	7.06	1.049	20.6	4.8
1020	8.76	3	6.97	1.012	20.7	3.4
1025	9.09	4	6.92	1.028	20.7	2.7
1030	9.38	5	6.95	1.020	20.7	3.0

COMMENTS:

FIELD DATA LOG FOR GROUNDWATER SAMPLING
Industrial Welding Site, Niagara Falls, New York

Well ID: MW-2 Date: 9-16-25

Sampler(s): S. Walsh, COREY Haynes, Michael FRYE

Weather: Clear

Calibration of Field Equipment:

pH Meter: Date: 9-16-25 Time 0800

Spec. Conduct. Meter: Date: 9-16-25 Time 0805

Turbidity Meter: Date: 9-16-25 Time 0810

Purging Method/Sampling Method: peristaltic

Sample ID: IWS-MW-2-091625

Well Purging Data:

Time	Water Level (Feet Below Top of Riser)	Volume Purged (Liters)	pH (Std. Units)	Specific Conductivity (μ mhos/cm)	Temp. (°C)	Turbidity (NTUs)
0920	6.88	2	7.46	1.108	19.7	2.67
0925	7.46	3	7.27	0.870	19.8	2.64
0930	7.74	4	7.21	0.866	19.9	2.90
0935	7.83	5	7.21	0.875	19.9	2.75
0940	8.00	6	7.18	0.870	19.8	2.66

COMMENTS:

FIELD DATA LOG FOR STORM WATER SAMPLING
Industrial Welding Site, Niagara Falls, New York

Location Description: Storm Drain Sample Point East of Catch Basin

Sampler(s): S. Walsh, Michael Frye, COREY Haynes

Weather: Clear

Date: 9-16-25 Time: 0845

Sample ID: IWS-SD1-091625

Sampling Method: peristaltic

Pipe Invert Elevation at Sample Point Riser (ft msl)	Measured Depth of Water Sample Point (ft)	Calculated Water Elevation - Sample Point (ft)	Outfall Invert Elevation (ft msl)	Measured Depth of Water Outfall Pipe (ft)	Calculated Outfall Water Elevation (ft msl)
	8.64				

COMMENTS: pH Cond Temp NTU DO.
 7.13 2.309 19.1 76 0.8

MS/MSP

FIELD DATA LOG FOR SD-1 DISCHARGE SAMPLING
Industrial Welding Site, Niagara Falls, New York

Location ID: MS #1 IWS-SD-1

Date: 9-16-25 Time: 0845

Sampler(s) S. Walsh, Michael Frye, COREY Haynes

Weather: clear

System Status (Check): On ☒ Off ☐

Sample ID: IWS-SD-1-MS-091625

Sampling Method: perm3/16L

Sample ID: IWS-SD-1-091625

COMMENTS:

688

LCRS 2025

Site Activities Report

Sevenson Environmental Services, Inc.
Niagara Falls, New York

REPORT NO.	Sevenson Job No. 135201	DATE: 11/4/25		
PROJECT TITLE	OLIN CORPORATION, INDUSTRIAL WELDING SITE			
LOCATION OF WORK	VETERANS DRIVE, NIAGARA FALLS, NEW YORK			
DESCRIPTION	O & M OF REMEDIATION SITE			
WEATHER:	RAINFALL INCHES:	TEMP (Deg F)	Min:	Max:
Sunny / 54°F	0.00		39	56

1. Work performed today by Prime Contractor (Include Labor Breakdown):

Gary Ernst on site to collect LCES Samples

2. Work Performed Today By Subcontractors (Include Labor Breakdown):

NONE

3. Materials and/Or Equipment Delivered To Site (Include Equipment Demobilization)

Horiba U-52
Filter for DOC samples
Sample Bottles
ice

4. Type And Results Of Inspection:

Collected Samples & Shipped to ALS For analysis
Site & system in fine condition
Heater is turned on

FIELD DATA LOG FOR LCRS DISCHARGE SAMPLING
Industrial Welding Site, Niagara Falls, New York

Location ID: MS #1 LCRS sample

Date: 11/4/25 Time: 1130

Sampler(s) Greg Ernst

Weather: Sunny, 54°F

System Status (Check): On X Off

Sample ID: IWS-MS1-110425

Sampling Method: Grab Sample via Sample port

Sample ID: IWS-MS1-110425

COMMENTS:

Horiba Data of water taken pre sample

Temp 16.99°C

pH 5.59

pH_{mV} 75

ORP_{mV} 167

mS/cm 1.77

NTU 29.2

mg/L DO 9.00

OLIN INDUSTRIAL WELDING SITE

Flow Meter Calibration

1. Recirculate water back into the well for 1 minute.
2. Record flow rate that is on meter.
3. Using valves in the system, redirect the water flow to the sample port and let it flow back down into the well.
4. Using a stop watch or a watch with a second hand, get ready to time how long it takes to fill a 5 gallon bucket by directing the sample port hose into it while starting the stop watch.
5. Record the time to fill the bucket.
6. Shut down the system, return all valves to normal operation mode, set system to AUTO.

Enter data below:

<u>DATE</u>	<u>RECIRCULATION RATE</u>	<u>TIME TO FILL 5 GALLON BUCKET</u>	<u>ESTIMATED ACTUAL FLOW</u>
	(In GPM) 5.942	(In Seconds) 66.67 1.11 minutes	(In GPM) 4.4998 GPM
11/4/2025			

* Differences between Recirculation Rate (on meter readout) and Estimated Actual Flow Rate, may be attributed to reduction in the diameter of the sample port hose (3/8") when flowing through the sample port, as opposed to flow through the recirculation piping (3/4" pipe).

TECHNICIAN: Greg Ernst

SEVENSON ENVIRONMENTAL SERVICES INC.
GROUNDWATER SAMPLING FIELD PARAMETERS
FIELD INSTRUMENTATION CALIBRATION FORM

DATE: 11/4/25 SAMPLING EVENT: LCRS Sample at LWS

PERSON CALIBRATING METER: Greg Frost

INSTRUMENT USED:

MANUFACTURER: Horiba

MODEL NUMBER: V-52

HGS NUMBER: R1B3YNXu

DATE OF MANUFACTURE: April 2017

CALIBRATION STANDARDS USED:

STANDARD 7.00 METER READ: _____

STANDARD 4.00 METER READ: X

STANDARD 10.00 METER READ: _____

CALIBRATION SOLUTION EXPIRATION DATE: 8/5/26

	PRE CALIBRATION READINGS	POST CALIBRATION READINGS
TEMPERATURE (°F or °C):	<u>18.24</u>	<u>18.34</u>
pH:	<u>3.91</u>	<u>3.93</u>
pHmv:	<u>162</u>	<u>174</u>
OX-RED POT (ORPmv):	<u>273</u>	<u>309</u>
CONDUCTIVITY (ms/cm):	<u>5.42</u>	<u>4.49</u>
TURBIDITY (NTU):	<u>0.2</u>	<u>0.0</u>
mg/L DO:	<u>15.15</u>	<u>10.95</u>
% DO:	<u>—</u>	<u>—</u>

OTHER CALIBRATION COMMENTS: _____

Spring 2026

FIELD DATA LOG FOR WATER ELEVATION MEASUREMENTS
Industrial Welding Site, Niagara Falls, New York

Name of Sampler: C. Kayner S. Walsh

Organization: OLIA

Weather: 21 - 23° 10 - 15 mph wind

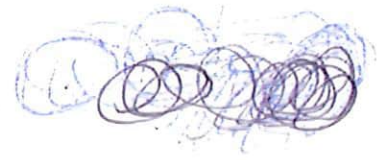
Water Level Indicator Make: e1e1f.c Model: _____ Serial No.: _____

Location	Location ID	Date/Time Measured	Top of Riser Elevation (ft msl)	Measured Depth to Water (Feet Below Top of Riser)	Water Elevation (ft msl)
LCRS Stand Pipe	SP1	3/24/26 1120		16.90	
LCRS Stand Pipe	SP2	3/24/26 1127		14.80	Dry
LCRS Recovery Well	LCRS1	3/24/26 0945	573.43		
Cover Area Piezometer	PIR	1122 3/24/26	582.10	17.38	Dry
East Easement Piezometer	P2R	1015 3/24/26	572.17	5.20	
Cover Area Piezometer	P3R	3/24/26 1130	581.90	15.10	
East Easement Piezometer	P4R	3/24/26 1110	571.09	3.48	
Cover Area Piezometer	P5R	3/24/26 1134	578.46	14.0	
East Easement Piezometer	P6R	3/24/26 1103	570.91	4.05	
NE Easement Monitoring Well	MW1	3/24/26 1040	570.87	6.88	
SE Easement Monitoring Well	MW2	3/24/26 0950	572.76	5.42	
		0950			

COMMENTS:

Site Activities Report

Sevenson Environmental Services, Inc.
Niagara Falls, New York



REPORT NO.	Sevenson Job No. 1305,	DATE: 3/24/26		
PROJECT TITLE	OLIN CORPORATION, INDUSTRIAL WELDING SITE			
LOCATION OF WORK	VETERANS DRIVE, NIAGARA FALLS, NEW YORK			
DESCRIPTION	O & M OF REMEDIATION SITE			
WEATHER: 21° - 23° windy 10-15 mph	RAINFALL INCHES: 0	TEMP (Deg F) 21-23°	Min: 21°	Max: 23°

1. Work performed today by Prime Contractor (Include Labor Breakdown):

Corey Haynes Steve Walsh

2. Work Performed Today By Subcontractors (Include Labor Breakdown):

3. Materials and/Or Equipment Delivered To Site (Include Equipment Demobilization)

4. Type And Results Of Inspection:

SEMI-ANNUAL INSPECTION REPORT FORM

DATE:

REPORT NO.:

QUESTIONS	RESPONSE		COMMENTS AND RECOMMENDATIONS
	YES	NO	
1. Security Fence			
Is damage evident? If Yes, describe the type of damage(s), and indicate the location(s) the attached map.	✓		top of fence not connected
Are warning signs missing or damaged? If Yes, describe the type of damage and indicate the location(s) on the attached map.		✓	
Is erosion evident under chain-link sections or around posts? If Yes, describe the type of erosion (rills, gullies, valleys, washouts), record approximate dimensions (length, width, depth) and indicate location(s) on the attached map.		✓	
Has failure of any fencing members occurred? If Yes, describe the failure(s) and indicate location(s) on attached map.		✓	
2. Vegetative Soil Cover			
Is settlement or standing water evident? If Yes, describe the degree of settlement(s) (slight, moderate, significant), record approximate dimensions, and indicate the location(s) on the attached map.		✓	
Is erosion evident? If Yes, describe the type of erosion (rills, gullies, valleys, washouts, slope failure), record approximate dimensions (length, width, depth) and indicate location(s) on the attached map.		✓	
Is vegetation distressed or are bare areas evident? If Yes, describe the type of disorder (distressed, sparsely vegetated, bare), record approximate dimensions and indicate location(s) on the attached map.		✓	
Is any other damage evident? If Yes, describe the type of damage(s) and indicate the location(s) on the attached map.		✓	
Are obstruction(s) (brush, debris, timber, leaves, sediment) interfering with the proper functioning of swales? Outlets from swales? If Yes, describe the type(s) of obstruction(s) and indicate the location(s) on the map attached. Is sediment deposited in swales impeding drainage? If Yes, record approximate dimensions and indicate location(s) on the attached map.		✓	

QUESTIONS	RESPONSE		COMMENTS AND RECOMMENDATIONS
	YES	NO	
3. Surface Water Drainage System			
Are catch basin(s) damaged? If Yes, describe the catch basin inspected, conditions observed (spalling, cracking, exposed reinforcement, joint separation) and indicate location(s) of damaged catch basin(s) on the attached map.		✓	
Are obstruction(s) (brush, debris, leaves, sediment) interfering with the proper functioning of the catch basin(s)? If Yes, describe the type(s) of obstruction(s) and indicated the location(s) on the attached map.		✓	
Is erosion evident? If Yes, describe the drainage structure inspected (swale, outfall) the type of erosion (rills, gullies, valley, washouts, slope failure), record approximate dimensions (length, width, depth) and indicate location(s) on the attached map.		✓	
Is sediment deposited in drainage pipe(s) deeper than 1/4 of the pipe diameter (shown on the contract drawings)? If Yes, record approximate dimension and indicate locations on the attached map.		✓	
Is structural damage to headwalls evident? If Yes, describe the type of damage (upheaval, cracking, undermined, overturned, fractured, broken) and indicate damaged structures on the map.		✓	
Have stones been dislodged at rip-rapped drainage outlet aprons? If Yes, record approximate dimensions and indicate location(s) on the attached map.		✓	
4. Asphalt Concrete Cover System			
Is pavement distress evident? If Yes, describe (cracking, pothole(s), upheaval, failed patch), record the approximate dimensions (length, width, and depth) and indicate location(s) on the attached map.		✓	
Is settlement or standing surface water evident? If Yes, describe the degree of settlement(s) (slight, moderate, significant), record approximate dimensions and indicate the location(s) on the attached map.		✓	
Are obstructions present in the catch basins? If Yes, describe the obstacle(s) (leaves, brush, sediment) and indicate the location(s) on the map attached.		✓	
Is sediment deposited in swale(s) impeding drainage? If Yes, record approximate dimensions and indicate location(s) on the map attached.		✓	

QUESTIONS	RESPONSE		COMMENTS AND RECOMMENDATIONS
	YES	NO	
3. Leachate Collection and Recovery System			
Is standing water present at the LCRS cleanout? If Yes, describe the depth of the standing water.		✓	
Is there evidence of any pipes or valves leaking at the recovery well? If Yes, describe the magnitude of the leak (drip, steady discharge, single overflow) and tag location(s) of leak(s).		✓	
Is leachate extraction well pump operating properly based on visual inspection? If No, describe the condition.		✓	
Is damage or degradation evident at the extraction well or stand pipe(s)? If Yes, describe the type of damage (vent/well riser cover missing, vent/well riser cracked, overturned, leaning, broken) and indicate damaged vent/well riser(s) on the map attached.		✓	
Is damage or degradation evident at these system components? Extraction well pump and associated piping? Leachate collection pipe cleanout?		✓	

Date: 3/24/20

INSPECTOR:

C. Hayes

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: MW-1

Date: 3/24/26

INSPECTOR: C Hayes

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: MW-2

Date: 3/24/20

INSPECTOR: C. Hays

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: SP-1

Date: 3/24/16

INSPECTOR: C. H. neg

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P1R

Date:

3/24/26

INSPECTOR:

C. Hays

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P2R

Date: 3/24/26

INSPECTOR: P. Hayes

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P3R

Date: 3/24/24

INSPECTOR: C Hayes

YES	NO

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P4R

Date: 3/24/26

INSPECTOR: C. Hayes

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P5R

Date: 3/24/20

INSPECTOR: C. (Huyang)

YES	NO

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

Industrial Welding Site

Piezometer and Monitoring Well

INSPECTION FORM

Inspection of Well/Piezometer No.: P6R

Date: 3/24/20

INSPECTOR: C. Hyatt

YES	NO
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

Is the wellhead clearly labeled?

Is there a lock on the well?

Is the concrete pad around the well in good condition

Has there been physical damage to the well?

Is the wellhead protected from standing water?

Is there evidence of frost heave on the protective casing?

Is there settlement around the well?

Is the well depth consistent with the installed depth?

COMMENTS:

INDUSTRIAL WELDING SITE
NIAGARA FALLS, NY
GROUNDWATER SAMPLING FIELD PARAMETERS
FIELD INSTRUMENTATION CALIBRATION FORM

DATE: 3/34/26 SAMPLING EVENT: Ind Weld

PERSON CALIBRATING METER: Carey Hargens

INSTRUMENT USED:

MANUFACTURER: YSI

MODEL NUMBER: PO DSS

HGS NUMBER: 205101930

DATE OF MANUFACTURE: _____

CALIBRATION STANDARDS USED:

STANDARD 7.00 METER READ: 2.13 / 7.00

STANDARD 4.00 METER READ: 3.85 / 4.00

STANDARD 10.00 METER READ: _____

CALIBRATION SOLUTION EXPIRATION DATE: _____

	PRE CALIBRATION READINGS	POST CALIBRATION READINGS
TEMPERATURE (°F or °C):	_____	_____
pH:	<u>3.85 / 7.13 / 10.29</u>	<u>4.00 / 7.00 / 10.00</u>
pHmv:	_____	_____
OX-RED POT (ORPmv):	_____	_____
CONDUCTIVITY (ms/cm):	<u>1.344</u>	<u>1.413</u>
TURBIDITY (NTU):	_____	_____
mg/L DO:	_____	_____
% DO:	<u>66</u>	<u>100</u>

OTHER CALIBRATION COMMENTS: _____

FIELD DATA LOG FOR SD-1 DISCHARGE SAMPLING
Industrial Welding Site, Niagara Falls, New York

Location ID: MS #1

Date: 3/24/26 Time: 0945

Sampler(s) C Haynes S Walsh

Weather: clear

System Status (Check): On ☒ Off ☐

Sample ID: IWS-SD1-032426

Sampling Method: pc ri

Sample ID: _____

COMMENTS:

FIELD DATA LOG FOR STORM WATER SAMPLING
Industrial Welding Site, Niagara Falls, New York

Location Description: Storm Drain Sample Point East of Catch Basin

Sampler(s): Cory Hayes Steve Walsh

Weather: clear

Date: 3/24/26 Time: 0945

Sample ID: IWS-SD1-032426

Sampling Method: _____

Pipe Invert Elevation at Sample Point Riser (ft msl)	Measured Depth of Water Sample Point (ft)	Calculated Water Elevation - Sample Point (ft)	Outfall Invert Elevation (ft msl)	Measured Depth of Water Outfall Pipe (ft)	Calculated Outfall Water Elevation (ft msl)
	2.5				

COMMENTS:

6.7°

5.83 mg/L

2.095 SPC mg/L

~~46.4~~ S/

5.58 mg/L

3.9 NTU

5.42

FIELD DATA LOG FOR GROUNDWATER SAMPLING **Industrial Welding Site, Niagara Falls, New York**

Well ID: MW-1 Date: 3/24/20
 Sampler(s): C. Harker J. Walsh
 Weather: clear
 Calibration of Field Equipment:

pH Meter: Date: _____ Time: _____
 Spec. Conduct. Meter: Date: _____ Time: _____
 Turbidity Meter: Date: _____ Time: _____

Purging Method/Sampling Method: _____

Sample ID: IWSMW-1-032426 ^{5/3/20/20} IWS-MW1-032426

Well Purging Data:

Time	Water Level (Feet Below Top of Riser)	Volume Purged (Liters)	pH (Std. Units)	Specific Conductivity (μ mhos/cm)	Temp. (°C)	Turbidity (NTUs)
1040	6.88	0.1	6.88	1.078	5.2	4.1
1045	7.22	1	6.87	0.980	4.7	3.2
1050	7.95	2	6.87	0.947	4.7	3.0
1055	8.25	3	6.86	0.950	4.8	3.0

COMMENTS:

FIELD DATA LOG FOR GROUNDWATER SAMPLING
Industrial Welding Site, Niagara Falls, New York

Well ID: MW-2 Date: 3/24/20
 Sampler(s): Corey Haynes Steve Wulfsberg
 Weather: clear
 Calibration of Field Equipment: _____

5.42

pH Meter: Date: _____ Time: _____
 Spec. Conduct. Meter: Date: _____ Time: _____
 Turbidity Meter: Date: _____ Time: _____

Purging Method/Sampling Method: _____

Sample ID: IWS-MW2-032420

Well Purging Data:

Time	Water Level (Feet Below Top of Riser)	Volume Purged (Liters)	pH (Std. Units)	Specific Conductivity (μ mhos/cm)	Temp. (°C)	Turbidity (NTUs)
~~0950~~						
~~0955~~	5.42	0.1	7.62	1.057	5.7	5.9
~~0955~~	5.78	1	7.45	1.010	5.9	3.4
~~1000~~	5.80	2	7.33	0.988	5.7	2.8
~~1005~~	5.80	3	7.18	1.012	5.6	2.7
1010	5.85	4	7.08	0.763	5.6	2.3
1015	5.90	5	7.05	0.639	5.7	1.4
1020	5.92	6	7.08	0.606	5.6	1.3
1025	5.94	7	7.08	0.603	5.6	1.3
1030	5.96	8	7.10	0.605	5.6	1.3

COMMENTS:

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
1	3/25/26	
3 cracks in pavement at SP-2		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
2	3/25/26	
Eastern fence condition facing south		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
3	3/25/26	
Northern fence condition facing west		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
4	3/25/26	
Top of northern security fence not connected at the top near the north western corner		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
5	3/25/26	
Northwestern corner of fence condition - small openings at the bottom close to entry gate		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
6	3/25/26	
Condition of northwestern fence facing south		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
7	3/25/26	
Small openings at the bottom of fence near large gate entrance on eastern fence.		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
8	3/25/26	
Cracks around the asphalt cover system on eastern end		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
9	3/25/26	
Cracks on the asphalt cover system on the northern edge of cover system		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
10	3/25/26	
Cracks on the asphalt cover system on western end of site		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
11	3/25/26	
Moderate cracks on the asphalt cover system on the northwest corner of cover system		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
12	3/25/26	
Condition of asphalt cover system near western drainages – evidence of pooling		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
13	3/25/26	
Condition of asphalt cover system - drainages		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
14	3/25/26	
Condition of asphalt cover system - drainages		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
15	3/25/26	
Condition of asphalt cover system - drainages		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
16	3/25/26	
Condition of asphalt cover system - drainages		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
17	3/25/26	
Moderate cracks on the asphalt cover system with some degradation around the drainage		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
18	3/25/26	
Condition of main gate on the eastern side of the site		

PHOTOGRAPHIC LOG		
Olin Corp	Industrial Welding Site Niagara Falls, NY	PRR 2026

Photo No.	Date	
19	3/25/26	
Condition of main gate on the eastern side of the site		

B

Institutional and Engineering Certification Form



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



Site No. 932050

Site Details

Box 1

Site Name Olin Corporation-Industrial Welding

Site Address: Packard Road near 30th Street Zip Code: 14303
City/Town: Niagara Falls
County: Niagara
Site Acreage: 13.290

Reporting Period: May 01, 2025 to May 01, 2026

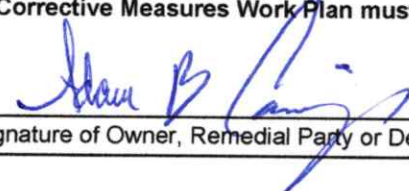
	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this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

Box 2

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

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

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


Signature of Owner, Remedial Party or Designated Representative

5-27-26
Date

Description of Institutional ControlsParcelOwnerInstitutional Control**159.12-1-10**

Olin Corporation

Soil Management Plan
Monitoring Plan
O&M Plan

Record of Decision; November 3, 1994 for Operable Units one and two (OU1 and OU2).

Deed Restriction; December 7, 2001.

159.12-1-2.2

Olin Corporation

Monitoring Plan
Soil Management Plan
O&M Plan

Record of Decision (ROD) November 3, 1994 for Operable Units 1 and 2 (OU1 and OU2.)

Deed Restriction; December 7, 2001.

159.12-1-7

Olin Corporation

Site Management Plan
O&M Plan

Operable Unit 3 (OU3) Packard Road Parcel.

Record of Decision (ROD) March 24, 2006.

Environmental Easement; June 24, 2010.

Description of Engineering ControlsParcelEngineering Control**159.12-1-10**

Monitoring Wells
Cover System
Fencing/Access Control
Groundwater Containment
Leachate Collection

Southern Cover System (American Legion Post Parcel, 136 Packard Road):

Operable Unit Two (OU2) was constructed as a subgrade, aggregate base course, asphalt concrete pavement (binder and top course), storm drainage, catch basins, storm drain piping with landscaping and security fencing.

A leachate collection and recovery system is active and extends beneath both the northern (150 Packard) and southern (136 Packard) covers. An extraction well pump is under the southern asphalt cover and automatically activates at a pre-set leachate level. Leachate is discharged to the Niagara Falls sewer system by City Permit No. ICU-23. The status of pump operations are monitored remotely.

159.12-1-2.2

Parcel

Engineering Control

Monitoring Wells
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control

The remediation consisted of the consolidation of sediments, soils and demolition debris from Gill Creek the American Legion Post and other excavated materials.

The North Cover System (150 Packard Road, IWS Parcel) was constructed as a leachate collection and recovery system, consisting of a trench, geotextile, coarse stone aggregate, collection piping, recovery well, leachate extraction pumping system with a force main and a clay barrier.

The cap details are a six inch clay buffer layer, 40-mil. geomembrane liner, eighteen inch protective/drainage soil layer and six inch vegetative soil layer and vegetative cover.

A leachate collection and recovery system is active and extends beneath both the northern (150 Packard) and southern (136 Packard) covers. A extraction well pump is under the southern asphalt cover and automatically activates at a pre-set leachate level. Leachate is discharged to the Niagara Falls sewer system by City Permit No. ICU-23. The status of pump operations are monitored remotely.

159.12-1-7

Monitoring Wells
Cover System
Fencing/Access Control

Operable Unit 3 (OU3) Packard Road Parcel: The remediation consists of an asphalt cover to the equivalent specifications as the cover system of south OU2.

Periodic Review Report (PRR) Certification Statements

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

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



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

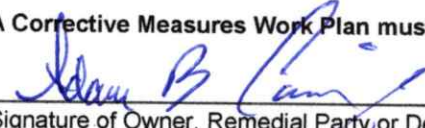
- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site; the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



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

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


Signature of Owner, Remedial Party, or Designated Representative

5-27-26

Date

IC CERTIFICATIONS
SITE NO. 932050

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Adam Carringer at 490 Stuart Rd NE Cleveland, TN, 37312
print name print business address

am certifying as Site Owner - Olin Corporation (Owner or Remedial Party)

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

Adam B Carringer
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

5-27-26
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I Adam B Carringer at 440 Stuart Rd NE Cleveland, TN, 37312
print name print business address

am certifying as a Qualified Environmental Professional for the Site Owner - Olin Corporation
(Owner or Remedial Party)

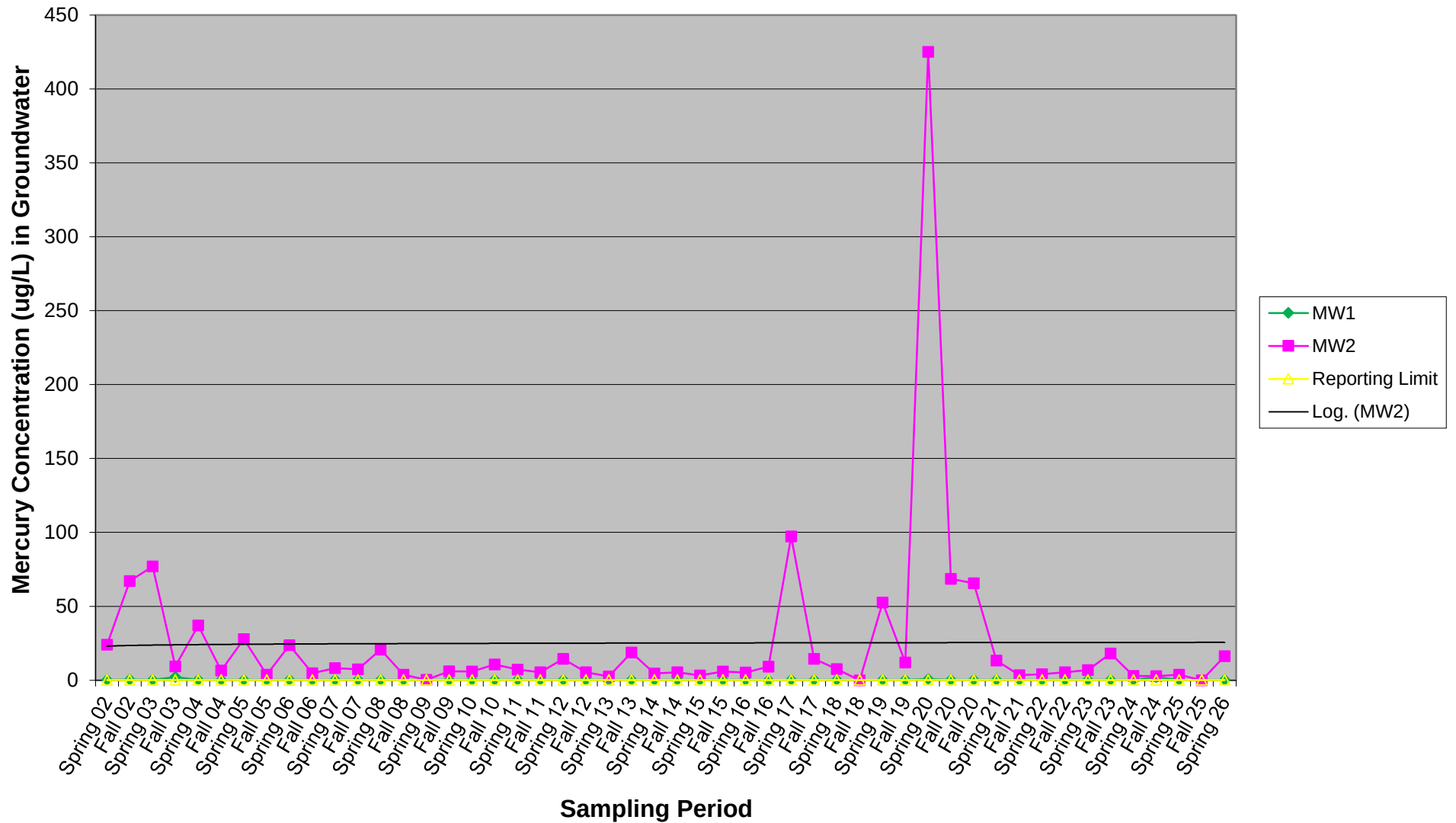
Adam B Carringer CHMM #32670 5-27-26
Signature of Qualified Environmental Professional, for Stamp Date
the Owner or Remedial Party, Rendering Certification (Required for PE)

C

Summary of Mercury Historical Detections in Monitoring Wells

Industrial Welding

Mercury Concentrations in Groundwater Over Time



**IW GROUNDWATER MONITORING
ANALYTICAL RESULTS FOR Hg MONITORING WELL BY PERIOD
SUMMARY SPRING 2003 - SPRING 2026**

Sampling Period	MW1 (ug/L)	MW2 (ug/L)	Rptg. Limit (ug/L)
Spring 02	0.2	24	0.2
Fall 02	0.5	67	0.2
Spring 03	0.2	77	0.2
Fall 03	2.2	9.3	0.2
Spring 04	0.2	37	0.2
Fall 04	0.2	6.6	0.2
Spring 05	0.2	27.8	0.2
Fall 05	0.2	3.7	0.2
Spring 06	0.2	23.7	0.2
Fall 06	0.2	4.7	0.2
Spring 07	0.2	8.2	0.2
Fall 07	0.2	7.3	0.2
Spring 08	0.2	20.7	0.2
Fall 08	0.2	3.7	0.2
Spring 09	0.2	0.2	0.2
Fall 09	0.2	6.1	0.2
Spring 10	0.2	5.8	0.2
Fall 10	0.2	10.6	0.2
Spring 11	0.2	7.2	0.2
Fall 11	0.2	5.3	0.2
Spring 12	0.2	14.4	0.2
Fall 12	0.2	5.3	0.2
Spring 13	0.2	2.5	0.2
Fall 13	0.2	18.7	0.2
Spring 14	0.2	4.5	0.2
Fall 14	0.2	5.4	0.2
Spring 15	0.2	3.2	0.2
Fall 15	0.2	5.9	0.2
Spring 16	0.2	5.2	0.2
Fall 16	NA	9.1	0.2
Spring 17	0.2	97.2	0.2
Fall 17	0.2	14.4	0.2
Spring 18	0.2	7.5	0.2
Fall 18	dry	dry	0.2
Spring 19	0.2	52.5	0.2
Fall 19	0.2	11.9	0.2
Spring 20	0.7	425	0.2
*Summer 20 ¹	0.2	68.6	0.2
Fall 20	0.2	65.6	0.2
Spring 21	0.2	13.3	0.2
Fall 21	0.2	3.4	0.2
Spring 22	0.2	4	0.2
Fall 22	0.2	5.42	0.2
Spring 23	0.2	6.81	0.2
Fall 23	0.2	18.1	0.2
Spring 24	0.2	2.97	0.2
Fall 24	2.1	2.67	0.2
Spring 25	0.2	3.69	0.2
Fall 25	0.2	ND	0.2
Spring 26	0.2	16.3	0.2

= Detected value

*Resampled due to anomalous values from spring sampling event

¹ERRATA: 2020 Sampling results/date were inadvertently reported.

D

Leachate Collect and Recovery System Annual Discharge Report



Environmental Remediation Group

490 Stuart Road NE
Cleveland, TN. 37312
(423) 508-2768
abcarringer@olin.com

SENT VIA OVERNIGHT COURIER

February 24, 2026

Industrial Monitoring Coordinator
City of Niagara Falls
Department of Wastewater Facilities
Enforcement Division
1200 Buffalo Avenue
PO Box 69
Niagara Falls, NY 14302-0069

**Re: Olin Industrial Welding Site – No Violations
Niagara Falls, New York
Wastewater Discharge Permit No. ICU-23
Periodic Self-Monitoring Report**

Dear Industrial Monitoring Coordinator:

Please find enclosed the annual Periodic Self-Monitoring Report in accordance with the reporting requirements of the Wastewater Discharge Permit for the Olin Industrial Welding Site. The site is in compliance for all monitored parameters; there are no violations.

Discharge during this monitoring period (January 2025 through December 2025) totaled 69,224 gallons. Daily flow documentation is included in Attachment 1. The annual monitoring samples were taken on November 05, 2025. The laboratory summary is in Attachment 2. The analytical results and loading data are tabulated in Part I of the report. There were no exceedances.

Please direct any questions or comments to me at 423/508-2768.

Sincerely,
OLIN CORPORATION

A handwritten signature in black ink, appearing to read 'Adam B. Carringer', is written over a light blue horizontal line.

Adam Carringer
Associate Environmental Specialist

Attachments

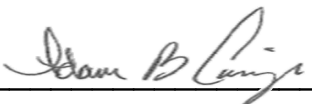
PERIODIC SELF MONITORING REPORT INDUSTRIAL COMMERCIAL USER

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or noncompliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state, and local standards and limitations. If no violations are noted, then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g, all Periodic self-Monitoring Reports must be signed by a 'responsible company official' certifying the following statement:

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 system, 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 violations.

Signed: 

Date: 2/24/2026

**PART 1
ANALYTICAL RESULTS**

ICU PERMIT NAME Olin Corporation - Industrial Welding Site

ICU PERMIT NUMBER ICU - 23

SAMPLE LOCATION MS#1

DATE SAMPLED 11/4/2025

ANALYSIS DATES Nov 08-12, 2025

ANALYTICAL LABORATORY ALS Environmental

Parameter	Method	Results (mg/l)	Flag	Results (lb/day)	Daily Max Discharge Limits (lb/day)
Total Suspended Solids	SM 2540 D	8.6		0.014	15
Soluble Organic Carbon	SM 5310 B	3.1		0.005	10
Acetone	EPA 624.1	0.00500	U	0.000008	0.01
Dichloroethanes	EPA 624.1	0.00200	U	0.000003	0.01
Trichloroethylenes	EPA 624.1	0.00254		0.000004	0.01
BHCs total	EPA 608.3	0.002706	UJ	0.0000043	0.001
Mercury	EPA 245.1	0.00117		0.0000019	0.008

Parameter	Value
Avg. Daily Flow (gal/day) for 2025	190
Avg. Daily Flow (Mgal/day) for 2025	0.00019
Discharge Limitations (Annual Avg. MGD)	0.005
Discharge Limitations (Daily Max MGD)	0.008

Notes:

U = Analyte was analyzed for but not detected

J = Estimated value based on QC data

UJ = Estimated value

Results (lb/day) = Results (mg/l) X Flow (Gal/Day) X .00000834

Flows calculated based on avg daily flow for year rather than for sampling month, due to flow variability and sampling month dry weather conditions.

INDUSTRY NAME	<u>Olin Corporation - Industrial Welding Site</u>
PERMIT NO.	<u>ICU - 23</u>

NOTE: * - Actual Discharge - List actual analytical results and appropriate units
 ** - Type Limit violated
 A.A. = Annual Average
 D.M = Daily Maximum
 L.L. Local Limits (Ordinance 250.5.1)

ATTACHMENT 1

Industrial Welding Site - Discharge Flows: 2025

Month	Monthly Flow (gal)	gal/day
Jan	2,531	82
Feb	3,733	133
Mar	26,285	848
Apr	19,866	662
May	8,536	275
Jun	1,420	47
Jul	703	23
Aug	0	0
Sep	192	6
Oct	0	0
Nov	3,726	124
Dec	2,232	72
Total	69,224	
MONTHLY AVERAGE	5,769	
daily average	190	
daily avg Mgal	0.000190	

Daily Avg. Limit = 0.005 Mgal

Industrial Welding Site Flows

Jan-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter	2,531	Gallons

<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
1/1/2025	3:58:12	2.1	726
1/2/2025	3:58:12	2.1	722
1/3/2025	3:58:12	0	0
1/4/2025	3:58:11	0.8	294
1/5/2025	3:58:13	1.2	409
1/6/2025	3:58:11	0	0
1/7/2025	3:58:13	0	0
1/8/2025	3:57:45	0	0
1/9/2025	3:58:12	0	0
1/10/2025	3:58:11	0	0
1/11/2025	3:58:12	0	0
1/12/2025	3:58:15	0	0
1/13/2025	3:58:14	0	0
1/14/2025	3:58:12	0	0
1/15/2025	3:58:13	0	0
1/16/2025	3:58:12	0	0
1/17/2025	3:58:12	0	0
1/18/2025	3:58:11	0	0
1/19/2025	3:58:12	0	0
1/20/2025	3:58:14	0	0
1/21/2025	3:58:11	0	0
1/22/2025	3:58:11	0	0
1/23/2025	3:58:11	0	0
1/24/2025	3:58:11	0	0
1/25/2025	3:58:11	0	0
1/26/2025	3:58:12	0	0
1/27/2025	3:58:12	0	0
1/28/2025	3:58:18	0	0
1/29/2025	3:58:12	0	0
1/30/2025	3:58:13	1.1	380
1/31/2025	3:58:11	<u>0</u>	<u>0</u>

January Total Discharge	7.3	2,531

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Feb-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter **3,733** **Gallons**

<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
2/1/2025	3:58:15	0	0
2/2/2025	3:58:14	0	0
2/3/2025	3:58:12	0	0
2/4/2025	3:58:12	0	0
2/5/2025	3:59:42	0	0
2/6/2025	3:58:13	0	0
2/7/2025	3:58:11	0	0
2/8/2025	3:58:11	0	0
2/9/2025	3:58:14	0	0
2/10/2025	3:58:11	0	0
2/11/2025	3:58:11	0	0
2/12/2025	3:58:11	0	0
2/13/2025	3:58:13	0	0
2/14/2025	3:58:12	0	0
2/15/2025	3:58:12	0	0
2/16/2025	3:58:13	0	0
2/17/2025	3:58:14	0	0
2/18/2025	3:58:23	0	0
2/19/2025	3:58:12	0	0
2/20/2025	3:58:14	0	0
2/21/2025	3:58:13	0	0
2/22/2025	3:58:13	0	0
2/23/2025	3:58:14	0	0
2/24/2025	3:58:13	0	0
2/25/2025	4:00:00	6.4	2168
2/26/2025	3:58:14	2.5	852
2/27/2025	3:58:13	1.1	368
2/28/2025	3:58:13	<u>1</u>	<u>345</u>

February Total Discharge **11** **3,733**

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Mar-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter		26,285	Gallons
<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
3/1/2025	3:58:12	2.1	711
3/2/2025	3:58:11	0	0
3/3/2025	3:58:19	9.4	848
3/4/2025	3:58:11	2.1	691
3/5/2025	3:58:14	3	1004
3/6/2025	3:58:12	4.9	1665
3/7/2025	3:58:12	5.2	1730
3/8/2025	3:58:12	4.8	1639
3/9/2025	5:00:01	4.2	875
3/10/2025	1:24:00	4.7	1593
3/11/2025	3:58:12	2.2	769
3/12/2025	3:58:11	2.3	781
3/13/2025	3:58:13	4.4	1469
3/14/2025	3:58:13	2.3	809
3/15/2025	3:58:12	1.1	388
3/16/2025	3:58:16	3.4	1163
3/17/2025	3:58:12	2.3	769
3/18/2025	3:58:13	2.2	753
3/19/2025	3:58:12	2.2	748
3/20/2025	3:58:12	2.2	754
3/21/2025	3:58:13	2.2	752
3/22/2025	3:58:13	2.2	754
3/23/2025	3:58:13	2.2	744
3/24/2025	3:58:15	0	0
3/25/2025	3:58:13	2.9	987
3/26/2025	3:58:18	0	0
3/27/2025	3:58:12	2.1	723
3/28/2025	3:58:12	0	0
3/29/2025	3:58:12	2.2	751
3/30/2025	3:58:13	5	1672
3/31/2025	3:58:11	<u>2.2</u>	<u>743</u>
March Total Discharge		86	26,285

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Apr-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter	19,866	Gallons

<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
4/1/2025	3:58:20	2.2	740
4/2/2025	3:58:11	2.5	852
4/3/2025	3:59:08	4.9	1670
4/4/2025	3:58:13	4.4	1491
4/5/2025	3:58:13	2.6	911
4/6/2025	3:58:12	4.6	1568
4/7/2025	3:58:12	2.3	768
4/8/2025	3:58:12	4.5	1534
4/9/2025	3:58:13	2.3	765
4/10/2025	3:58:13	2.3	776
4/11/2025	3:58:12	2.4	808
4/12/2025	3:58:13	3.5	1213
4/13/2025	3:58:13	1.8	654
4/14/2025	3:58:12	1.1	371
4/15/2025	3:58:18	2.1	730
4/16/2025	3:58:16	2.1	734
4/17/2025	3:58:13	2.2	729
4/18/2025	3:58:12	0	0
4/19/2025	3:58:13	2.1	715
4/20/2025	3:59:15	0	0
4/21/2025	3:58:13	2.1	717
4/22/2025	3:58:17	0	0
4/23/2025	3:58:13	2.1	714
4/24/2025	3:58:14	0	0
4/25/2025	3:58:12	0	0
4/26/2025	3:58:13	2.1	703
4/27/2025	3:58:12	0	0
4/28/2025	3:58:15	0	0
4/29/2025	3:58:12	2.1	703
4/30/2025	3:58:16	<u>0</u>	<u>0</u>

April Total Discharge	58.3	19,866

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

May-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter **8,536** **Gallons**

<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
5/1/2025	3:58:13	0	0
5/2/2025	3:59:14	2	705
5/3/2025	3:58:11	0	0
5/4/2025	3:58:12	2.1	713
5/5/2025	3:58:12	0	0
5/6/2025	3:58:12	2.1	711
5/7/2025	3:58:13	0	0
5/8/2025	3:58:12	0	0
5/9/2025	3:58:13	2.1	708
5/10/2025	3:58:13	0	0
5/11/2025	3:58:13	0	0
5/12/2025	3:58:17	2.1	714
5/13/2025	3:58:12	0	0
5/14/2025	3:58:14	0	0
5/15/2025	3:58:15	2.1	701
5/16/2025	3:58:11	0	0
5/17/2025	3:58:17	0	0
5/18/2025	3:58:14	0	0
5/19/2025	3:59:37	2	691
5/20/2025	3:58:12	0	0
5/21/2025	3:58:12	0	0
5/22/2025	3:58:13	2.2	728
5/23/2025	3:58:10	2.1	728
5/24/2025	3:58:11	0	0
5/25/2025	3:58:12	2.1	723
5/26/2025	3:58:11	0	0
5/27/2025	3:58:11	0.2	69
5/28/2025	3:58:13	1.9	646
5/29/2025	4:06:07	0	0
5/30/2025	3:58:12	2	699
5/31/2025	3:58:13	<u>0</u>	<u>0</u>

May Total Discharge **25** **8,536**

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Jun-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter		1,420	Gallons
<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
6/1/2025	3:58:12	0	0
6/2/2025	3:58:13	2.1	718
6/3/2025	3:58:12	0	0
6/4/2025	3:58:12	0	0
6/5/2025	3:58:12	0	0
6/6/2025	3:58:12	0	0
6/7/2025	3:58:15	0	0
6/8/2025	3:58:12	2	702
6/9/2025	3:59:12	0	0
6/10/2025	3:58:11	0	0
6/11/2025	3:58:13	0	0
6/12/2025	3:58:13	0	0
6/13/2025	3:58:10	0	0
6/14/2025	3:58:14	0	0
6/15/2025	3:58:12	0	0
6/16/2025	3:58:13	0	0
6/17/2025	3:58:13	0	0
6/18/2025	3:58:14	0	0
6/19/2025	3:58:14	0	0
6/20/2025	3:59:40	0	0
6/21/2025	3:58:13	0	0
6/22/2025	3:58:14	0	0
6/23/2025	3:58:12	0	0
6/24/2025	4:01:00	0	0
6/25/2025	3:58:12	0	0
6/26/2025	3:59:38	0	0
6/27/2025	3:58:12	0	0
6/28/2025	3:58:35	0	0
6/29/2025	3:58:16	0	0
6/30/2025	3:58:13	<u>0</u>	<u>0</u>
June Total Discharge		4.1	1,420

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Jul-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter		703	Gallons
<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
7/1/2025	3:58:13	0	0
7/2/2025	3:58:13	2.1	700
7/3/2025	3:58:11	0	0
7/4/2025	3:58:12	0	0
7/5/2025	3:58:23	0	0
7/6/2025	3:58:11	0	0
7/7/2025	3:58:12	0	0
7/8/2025	3:58:16	0	0
7/9/2025	3:58:12	0	0
7/10/2025	3:58:13	0	0
7/11/2025	3:58:12	0	0
7/12/2025	3:58:13	0	0
7/13/2025	3:58:12	0	0
7/14/2025	3:58:12	0	0
7/15/2025	3:58:12	0	0
7/16/2025	3:58:13	0	0
7/17/2025	3:58:13	0.1	3
7/18/2025	3:59:36	0	0
7/19/2025	3:59:37	0	0
7/20/2025	3:58:14	0	0
7/21/2025	3:58:13	0	0
7/22/2025	3:58:13	0	0
7/23/2025	3:58:14	0	0
7/24/2025	3:58:11	0	0
7/25/2025	3:58:13	0	0
7/26/2025	3:58:15	0	0
7/27/2025	3:58:13	0	0
7/28/2025	3:58:14	0	0
7/29/2025	3:58:13	0	0
7/30/2025	3:58:12	0	0
7/31/2025	3:58:13	<u>0</u>	<u>0</u>
July Total Discharge		2.2	703

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Aug-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter		0	Gallons
<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
8/1/2025	3:59:59	0	0
8/2/2025	3:58:12	0	0
8/3/2025	3:58:14	0	0
8/4/2025	3:59:17	0	0
8/5/2025	3:58:12	0	0
8/6/2025	3:58:13	0	0
8/7/2025	3:58:14	0	0
8/8/2025	3:57:46	0	0
8/9/2025	3:58:12	0	0
8/10/2025	3:58:12	0	0
8/11/2025	3:58:12	0	0
8/12/2025	3:58:14	0	0
8/13/2025	3:59:15	0	0
8/14/2025	3:58:12	0	0
8/15/2025	3:58:22	0	0
8/16/2025	3:58:12	0	0
8/17/2025	3:58:22	0	0
8/18/2025	3:58:13	0	0
8/19/2025	3:58:13	0	0
8/20/2025	3:58:13	0	0
8/21/2025	3:58:14	0	0
8/22/2025	3:58:17	0	0
8/23/2025	3:58:15	0	0
8/24/2025	3:58:34	0	0
8/25/2025	3:58:12	0	0
8/26/2025	3:58:13	0	0
8/27/2025	3:58:13	0	0
8/28/2025	3:58:12	0	0
8/29/2025	3:58:12	0	0
8/30/2025	3:58:12	0	0
8/31/2025	3:58:13	<u>0</u>	<u>0</u>
August Total Discharge		0	0

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Sep-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter		192	Gallons
<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
9/1/2025	3:59:39	0	0
9/2/2025	3:58:16	0	0
9/3/2025	3:58:10	0	0
9/4/2025	3:58:18	0	0
9/5/2025	3:59:15	0	0
9/6/2025	4:00:40	0	0
9/7/2025	3:59:42	0	0
9/8/2025	3:58:13	0	0
9/9/2025	3:58:13	0	0
9/10/2025	3:58:21	0	0
9/11/2025	3:58:11	0	0
9/12/2025	3:58:12	0	0
9/13/2025	3:58:12	0	0
9/14/2025	3:58:13	0	0
9/15/2025	3:58:12	0	0
9/16/2025	3:58:16	0.5	180
9/17/2025	3:59:36	0	0
9/18/2025	3:58:13	0	0
9/19/2025	3:58:13	0.1	12
9/20/2025	3:58:14	0	0
9/21/2025	3:58:12	0	0
9/22/2025	3:58:18	0	0
9/23/2025	3:58:12	0	0
9/24/2025	3:58:12	0	0
9/25/2025	3:58:13	0	0
9/26/2025	3:58:17	0	0
9/27/2025	3:58:11	0	0
9/28/2025	3:58:12	0	0
9/29/2025	3:58:13	0	0
9/30/2025	3:58:13	<u>0</u>	<u>0</u>
September Total Discharge		0.6	192

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Oct-25

RTU NAME: Olin Industrial Welding

CUMULATIVE VALUES

Discharge Flow Meter		0	Gallons
<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
10/1/2025	3:58:13	0	0
10/2/2025	3:58:13	0	0
10/3/2025	3:58:13	0	0
10/4/2025	3:58:13	0	0
10/5/2025	3:58:13	0	0
10/6/2025	3:58:14	0	0
10/7/2025	3:58:11	0	0
10/8/2025	3:58:11	0	0
10/9/2025	3:58:11	0	0
10/10/2025	3:58:12	0	0
10/11/2025	3:58:17	0	0
10/12/2025	3:58:14	0	0
10/13/2025	3:59:10	0	0
10/14/2025	3:59:43	0	0
10/15/2025	3:58:12	0	0
10/16/2025	3:58:12	0	0
10/17/2025	3:58:11	0	0
10/18/2025	3:58:10	0	0
10/19/2025	3:58:18	0	0
10/20/2025	3:58:11	0	0
10/21/2025	3:58:12	0	0
10/22/2025	3:58:12	0	0
10/23/2025	3:58:12	0	0
10/24/2025	3:58:12	0	0
10/25/2025	3:58:12	0	0
10/26/2025	3:58:13	0	0
10/27/2025	3:58:11	0	0
10/28/2025	3:58:19	0	0
10/29/2025	3:58:14	0	0
10/30/2025	3:58:11	0	0
10/31/2025	3:58:23	<u>0</u>	<u>0</u>
October Total Discharge		0	0

Daily Discharge Limits: Max = 8,000 gal

Industrial Welding Site Flows

Nov-25

RTU NAME: Olin Industrial Welding

CUMULATEVE VALUES

Discharge Flow Meter	3,726	Gallons

<u>Date</u>	<u>Time</u>	<u>Hours</u>	<u>Gallons</u>
11/1/2025	3:58:19	0	0
11/2/2025	2:57:46	0	0
11/3/2025	3:58:18	0	0
11/4/2025	3:58:15	1.3	437
11/5/2025	3:58:12	0	0
11/6/2025	3:58:14	0	0
11/7/2025	3:58:20	0	0
11/8/2025	3:58:22	0	0
11/9/2025	3:58:13	0	0
11/10/2025	3:58:11	1.8	631
11/11/2025	3:58:13	2	696
11/12/2025	3:58:11	4	1365
11/13/2025	3:58:13	1.7	597
11/14/2025	3:58:11	0	0
11/15/2025	3:58:11	0	0
11/16/2025	3:58:12	0	0
11/17/2025	3:58:13	0	0
11/18/2025	3:57:45	0	0
11/19/2025	3:58:14	0	0
11/20/2025	3:59:15	0	0
11/21/2025	3:58:21	0	0
11/22/2025	3:59:16	0	0
11/23/2025	3:58:14	0	0
11/24/2025	3:58:20	0	0
11/25/2025	3:58:12	0	0
11/26/2025	3:59:37	0	0
11/27/2025	3:58:17	0	0
11/28/2025	3:59:08	0	0
11/29/2025	3:58:11	0	0
11/30/2025	3:58:12	<u>0</u>	<u>0</u>

November Total Discharge	10.8	3,726

Daily Discharge Limits: Max = 8,000 gal

Dec-25

CUMULATIVE VALUES

Gallons

2,232

Daily Discharge Limits: Max = 8,000 gal

ATTACHMENT 2

Olin Corporation Industrial Welding Site

November-24

SDG-R2514437

Sample	Date Collected	Date Received	Date Analyzed	Component	MRL	Result	Flag	Units
IWS-MS-110425	11/4/2025	11/5/2025	11/8/2025	Carbon, Dissolved Organic (DOC)	1.0	3.1		mg/L
IWS-MS-110425	11/4/2025	11/5/2025	11/7/2025	Solids, Total Suspended (TSS)	1.0	8.6		mg/L
IWS-MS-110425	11/4/2025	11/5/2025	11/10/2025	Mercury, Total	0.20	1.17		ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/6/2025	Acetone	5.00	5.00	U	ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/6/2025	1,1-Dichloroethane (1,1-DCA)	1.00	1.00	U	ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/6/2025	1,2-Dichloroethane	1.00	1.00	U	ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/6/2025	Trichloroethene (TCE)	1.00	2.54		ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/12/2025	alpha-BHC	0.0481	0.0481	U	ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/12/2025	beta-BHC	0.0481	0.022	J	ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/12/2025	delta-BHC	0.0481	0.0481	U	ug/L
IWS-MS-110425	11/4/2025	11/5/2025	11/12/2025	gamma-BHC (Lindane)	0.0481	0.0481	U	ug/L

Notes:

U = Analyte was analyzed for but not detected

J = Estimated value

MRL = Method Reporting Limit

Values in the "Results" column that are in bold font represent values above the the MRL



November 19, 2025

Service Request No:R2514437

Adam Carringer
Olin Corporation
490 Stuart Road
Cleveland, TN 37312

Laboratory Results for: Olin Industrial Welding Site

Dear Adam,

Enclosed are the results of the sample(s) submitted to our laboratory November 05, 2025
For your reference, these analyses have been assigned our service request number **R2514437**.

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 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Randy Morris

ADDRESS

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

PHONE

+1 585 288 5380

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



Client: Olin Corporation
Project: Olin Industrial Welding Site
Sample Matrix: Water

Service Request: R2514437
Date Received: 11/05/2025

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 level IV requested by the client.

Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an "m" next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of "manipulated" or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or "M" by the result in the "Type" column (anions). The reason for the manual integration is noted on the "after" chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT "Manual Integration."

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 11/05/2025. 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.

Semivolatile GC:

No significant anomalies were noted with this analysis.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 624, 11/06/2025: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by  _____

Date 11/19/2025



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: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845

Service Request:R2514437

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2514437-001	IWS-MS1-110425	11/4/2025	1130
R2514437-002	Trip Blank	11/4/2025	



Chain of Custody / Analytical Request Form

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300/9056A NO2/NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

[illegible]



R2514437

5

Olin Corporation
Olin Industrial Welding Site

Cooler Receipt and Preservation Check

Project/Client

Olin Corp

Folder Number

Cooler received on

11/5/25

by:

HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings

Date: 11/5/25

Time: 10:06

ID: IR#12 IR#11

From: Temp Blank

Sample Bottle

Temp (°C)							
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition:

Ice melted

Poorly Packed (described below)

Same Day Rule

& Client Approval to Run Samples:

Standing Approval

Client aware at drop-off

Client notified by:

All samples held in storage location:

SMD

by

HE

on

11/5/25

at

1013

5035 samples placed in storage location:

by

HE

on

11/5/25

at

1013

within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date:

Time:

by:

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

YES NO

10. Did all bottle labels and tags agree with custody papers?

YES NO

11. Were correct containers used for the tests indicated?

YES NO

12. Were 5035 vials acceptable (no extra labels, not leaking)?

YES NO N/A

13. Were dissolved metals filtered in the field?

YES NO N/A

14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N

Canisters Pressurized

Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.

Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers:

Explain all Discrepancies/ Other Comments:

2) Wrong sample date on LOC for IWS-M31, and also wrong relinquishing date
 Sample I assumed a sample date of 11/4/25
 HE

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by:

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

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

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845

Service Request: R2514437

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Sample Matrix: Water

Date Collected: 11/4/25
Date Received: 11/5/25

Analysis Method
245.1
608 Modified
624
SM 2540 D-2015
SM 5310 B-2014

Extracted/Digested By
ECASTROVINCI
JVANHEYNINGEN

Analyzed By
ECASTROVINCI
AFELSER
KRUEST
SCLOSE
KAWONG

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001.R01
Sample Matrix: Water

Date Collected: 11/4/25
Date Received: 11/5/25

Analysis Method
624

Extracted/Digested By

Analyzed By
JMCCAFFERY

Sample Name: Trip Blank
Lab Code: R2514437-002
Sample Matrix: Water

Date Collected: 11/4/25
Date Received: 11/5/25

Analysis Method
624

Extracted/Digested By

Analyzed By
JMCCAFFERY



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 / 200.8	200.2
6010D	3005A/3010A
6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



Volatile Organic Compounds by GC/MS

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: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001

Service Request: R2514437
Date Collected: 11/04/25 11:30
Date Received: 11/05/25 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/06/25 14:58	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/06/25 14:58	
Acetone	5.00 U	5.00	2.10	1	11/06/25 14:58	
Trichloroethene (TCE)	2.54	1.00	0.200	1	11/06/25 14:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	107	73 - 125	11/06/25 14:58	
4-Bromofluorobenzene	112	85 - 122	11/06/25 14:58	
Toluene-d8	99	87 - 121	11/06/25 14:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R2514437-002

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25 13:33

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/06/25 14:35	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/06/25 14:35	
Acetone	5.00 U	5.00	2.10	1	11/06/25 14:35	
Trichloroethene (TCE)	1.00 U	1.00	0.200	1	11/06/25 14:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	73 - 125	11/06/25 14:35	
4-Bromofluorobenzene	109	85 - 122	11/06/25 14:35	
Toluene-d8	100	87 - 121	11/06/25 14:35	



Semivolatile Organic Compounds by GC

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ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water
Sample Name: IWS-MS1-110425
Lab Code: R2514437-001

Service Request: R2514437
Date Collected: 11/04/25 11:30
Date Received: 11/05/25 10:00
Units: ug/L
Basis: NA

Organochlorine Pesticides by GC/ECD

Analysis Method: 608.3
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.0481 U	0.0481	0.0200	1	11/12/25 21:38	11/6/25	
beta-BHC	0.0220 J	0.0481	0.0200	1	11/12/25 21:38	11/6/25	
delta-BHC	0.0481 U	0.0481	0.0200	1	11/12/25 21:38	11/6/25	
gamma-BHC (Lindane)	0.0481 U	0.0481	0.0200	1	11/12/25 21:38	11/6/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	61	10 - 95	11/12/25 21:38	
Decachlorobiphenyl	51	10 - 110	11/12/25 21:38	



Metals

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Form 1

Inorganic Analysis Data Sheet

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

IWS-MS1-110425	Collected	Received	Matrix	Prep Method
R2514437-001	11/04/25 1130	11/05/25 1000	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	1.17		ug/L	0.08	0.20	1	11/10/25 15:28	R-CVAA-03_900192	467262

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

Method Blank	Matrix	Prep Method
R2514437-MB	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	11/10/25 12:18	R-CVAA-03_900192	467262

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



General Chemistry

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Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water
Sample Name: IWS-MS1-110425
Lab Code: R2514437-001

Service Request: R2514437
Date Collected: 11/04/25 11:30
Date Received: 11/05/25 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	3.1	mg/L	1.0	1	11/08/25 12:15	
Solids, Total Suspended (TSS)	SM 2540 D-2015	8.6	mg/L	1.0	1	11/07/25 10:00	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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QA/QC Report

Client: Olin Corporation

Service Request: R2514437

Project: Olin Industrial Welding Site/release order ERRE9845

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Toluene-d8
		73 - 125	85 - 122	87 - 121
IWS-MS1-110425	R2514437-001	107	112	99
Trip Blank	R2514437-002	106	109	100
Lab Control Sample	RQ2515958-02	98	103	99
Method Blank	RQ2515958-03	103	100	99
Lab Control Sample	RQ2516161-03	93	106	98
Method Blank	RQ2516161-04	94	103	98
IWS-MS1-110425 MS	RQ2516161-05	92	98	98
IWS-MS1-110425 DMS	RQ2516161-06	91	107	99

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25
Date Analyzed: 11/10/25

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Analysis Method: 624.1

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2516161-05			Duplicate Matrix Spike RQ2516161-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1-Dichloroethane (1,1-DCA)	1.00 U	49.0	50.0	98	50.5	50.0	101	59-155	3	40
1,2-Dichloroethane	1.00 U	49.9	50.0	100	50.3	50.0	101	49-155	<1	49
Acetone	5.00 U	40.5	50.0	81	42.5	50.0	85	35-183	5	30
Trichloroethene (TCE)	2.54	58.4	50.0	112	58.5	50.0	112	70-157	<1	48

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2515958-03

Service Request: R2514437
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/06/25 12:07	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/06/25 12:07	
Acetone	5.00 U	5.00	2.10	1	11/06/25 12:07	
Trichloroethene (TCE)	1.00 U	1.00	0.200	1	11/06/25 12:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	73 - 125	11/06/25 12:07	
4-Bromofluorobenzene	100	85 - 122	11/06/25 12:07	
Toluene-d8	99	87 - 121	11/06/25 12:07	

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dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2516161-04

Service Request: R2514437
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/10/25 12:51	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/10/25 12:51	
Acetone	5.00 U	5.00	2.10	1	11/10/25 12:51	
Trichloroethene (TCE)	1.00 U	1.00	0.200	1	11/10/25 12:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	73 - 125	11/10/25 12:51	
4-Bromofluorobenzene	103	85 - 122	11/10/25 12:51	
Toluene-d8	98	87 - 121	11/10/25 12:51	

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/06/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ2515958-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethane (1,1-DCA)	624.1	18.2	20.0	91	70-130
1,2-Dichloroethane	624.1	20.2	20.0	101	70-130
Acetone	624.1	13.7	20.0	68	40-161
Trichloroethene (TCE)	624.1	19.6	20.0	98	65-135

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/10/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ2516161-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethane (1,1-DCA)	624.1	19.8	20.0	99	70-130
1,2-Dichloroethane	624.1	20.0	20.0	100	70-130
Acetone	624.1	15.9	20.0	80	40-161
Trichloroethene (TCE)	624.1	21.7	20.0	108	65-135



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by GC/ECD

Analysis Method: 608.3
Extraction Method: Method

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 110	10 - 95
IWS-MS1-110425	R2514437-001	51	61
Method Blank	RQ2515940-01	66	62
Lab Control Sample	RQ2515940-02	60	68
Duplicate Lab Control Sample	RQ2515940-03	63	67
IWS-MS1-110425 MS	RQ2515940-06	48	59
IWS-MS1-110425 DMS	RQ2515940-07	54	62

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25
Date Analyzed: 11/12/25
Date Extracted: 11/6/25

Duplicate Matrix Spike Summary
Organochlorine Pesticides by GC/ECD

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Analysis Method: 608.3
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount				
			RQ2515940-06			RQ2515940-07				
alpha-BHC	0.0481 U	0.278	0.385	72	0.287	0.385	75	37-140	3	36
beta-BHC	0.0220 J	0.307	0.385	74	0.311	0.385	75	17-147	1	44
delta-BHC	0.0481 U	0.329	0.385	86	0.333	0.385	86	19-140	<1	52
gamma-BHC (Lindane)	0.0481 U	0.283	0.385	74	0.289	0.385	75	32-140	2	39

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2515940-01

Service Request: R2514437
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Organochlorine Pesticides by GC/ECD

Analysis Method: 608.3
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	
beta-BHC	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	
delta-BHC	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	
gamma-BHC (Lindane)	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	62	10 - 95	11/12/25 19:37	
Decachlorobiphenyl	66	10 - 110	11/12/25 19:37	

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/12/25

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by GC/ECD

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2515940-02					RQ2515940-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
alpha-BHC	608.3	0.297	0.400	74	0.297	0.400	74	37-140	<1	36
beta-BHC	608.3	0.295	0.400	74	0.293	0.400	73	17-147	<1	44
delta-BHC	608.3	0.325	0.400	81	0.334	0.400	84	19-140	3	52
gamma-BHC (Lindane)	608.3	0.296	0.400	74	0.299	0.400	75	32-140	1	39



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Form 3

Blanks

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 3 - Blanks

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

R-CVAA-03_900192			ICB		CCB		CCB		CCB		CCB		CCB	
			Run Date		11/10/25		11/10/25		11/10/25		11/10/25		11/10/25	
			Run Time		12:08		12:16		14:50		15:15		15:43	
			Units		ppb		ppb		ppb		ppb		ppb	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Mercury	0.08	0.20	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Q - Result Flag * - Result Above Limit

Form 5A

Matrix Spike Sample Recovery

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 5A - Matrix Spike Sample Recovery

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

RunID
R-CVAA-03-900192

IWS-MS1-110425 (R2514437-001)					001MS			001DMS							
Sample Matrix		Water		Analysis Batch		900192		Run Date		11/10/25		Run Date		11/10/25	
Result Units		ug/L		Prep Batch		467262		Run Time		15:31		Run Time		15:33	
Prep Method		Method		Prep Date		11/07/25		Prep Amt		25 mL		Prep Amt		25 mL	
Analyte		%R Limits	DF	Sample Result	Spike Added	MS Result	%R	Q	DMS Result	%R	Q	RPD	Q	RPD Limit	
Mercury, Total		70 - 130	1	1.17	1.00	2.35	118		2.13	96		10		20	

RPD Relative Percent Difference

%R %Recovery

Q %R or RPD Flag

NC Not Calculated

DO Diluted Out

MS\D Matrix Spike \Duplicate

DF Dilution Factor

***** %R or RPD Outside Limits

NS Not Spiked

Amt weight or volume

Form 7

Laboratory Control Sample

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 7 - Laboratory Control Sample

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

RunID
R-CVAA-03-900192

R-CVAA-03_900192			R2514437-LCS			
Spike Matrix	Water	Analysis Batch	900192	Run Date	11/10/25	
Result Units	ug/L	Prep Batch	467262	Run Time	12:21	
Prep Method	Method	Prep Date	11/07/2025	Prep Amt	25 mL	
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Mercury	85-115	1.00	1.04	104		



General Chemistry

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Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2514437-MB

Service Request: R2514437
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	11/08/25 09:57	
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0 U	mg/L	1.0	1	11/07/25 10:00	

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dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25
Date Analyzed: 11/8/25

Duplicate Matrix Spike Summary
Carbon, Dissolved Organic (DOC)

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Analysis Method: SM 5310 B-2014

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2514437-001MS			Duplicate Matrix Spike R2514437-001DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Dissolved Organic (DOC)	3.1	29.2	25.0	104	28.7	25.0	102	48-135	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437**Date Collected:** 11/04/25**Date Received:** 11/05/25**Date Analyzed:** 11/07/25

Replicate Sample Summary
General Chemistry Parameters

Sample Name: IWS-MS1-110425**Units:** mg/L**Lab Code:** R2514437-001**Basis:** NA

				Duplicate Sample R2514437- 001DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0	8.6	8.6	8.60	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/07/25 - 11/08/25

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2514437-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	27.1	25.0	108	80-121
Solids, Total Suspended (TSS)	SM 2540 D-2015	107	100	107	80-120

E

Lab Reports



September 30, 2025

Service Request No:R2511737

Adam Carringer
Olin Corporation
490 Stuart Road
Cleveland, TN 37312

Laboratory Results for: Industrial Welding

Dear Adam,

Enclosed are the results of the sample(s) submitted to our laboratory September 17, 2025
For your reference, these analyses have been assigned our service request number **R2511737**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Randy Morris

ADDRESS

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FAX

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com



Client: Olin Corporation
Project: Industrial Welding
Sample Matrix: Water

Service Request: R2511737
Date Received: 09/17/2025

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 level IV requested by the client.

Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an "m" next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of "manipulated" or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or "M" by the result in the "Type" column (anions). The reason for the manual integration is noted on the "after" chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT "Manual Integration."

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 09/17/2025. 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.

Semivolatiles by GC/MS:

No significant anomalies were noted with this analysis.

Semivolatile GC:

Method 8081B, 09/24/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

The RPD between the MS and the MSD was greater than the RPD limit. The percent recovery limit was met for both the MS and the MSD.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____

Date 09/29/2025



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

www.alsglobal.com

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845

Service Request:R2511737

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2511737-001	IWS-SD1-091625	9/16/2025	0845
R2511737-002	IWS-MW-2-091625	9/16/2025	0940
R2511737-003	IWS-MW-1-091625	9/16/2025	1030



Chain of Custody / Analytical Request Form

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087913

Cr6 7196/SM3500; BOD; CT; Cr6 7199/218.6
 353.2 NO2; OPO4; 300/9056A NO2/NO3; Sulfide
 RES Cl; DO; Ferrous Iron; Sulfite; UV 254; CHL A
 Color; Turbidity; Set Solids

Report To:		ALL SHADED AREAS <u>MUST</u> BE COMPLETED BY THE CLIENT / SAMPLER			Preservative		0-None, 1-HCl, 2-HNO3, 3-H2SO4, 4-NaOH, 5-ZnAc, 6-MeOH, 7-NaHSO4, 8-Other																		
Company:		Project Name:			Matrix	Number of Containers	MS/MSD?	↓ Tests / Analytes Requested ↓																	
Contact:		Project Number:						GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter											
Email:		ALS Quote #:						DOD? Y / N																	
Phone:		Sampler's Signature:																							
Address:		Email CC:																							
OLIN CORP		FNDustrial Welding																							
Adam Camner																									
ADCamner@olin.com																									
423-336-4987																									
490 Stuart Rd NE																									
Cherland TN 37312																									
		State Samples Collected (Circle or Write): NY, MA, PA, CT, Other:																							
Lab ID (ALS)	Sample Collection Information:																								
	Sample ID / Name of Collection Point:	Date	Time																						
	IWS-SD1-091625	9-16-25	0845	GW	15	✓	6	6							3										
	IWS-MW-2-091625	↓	0940		5	✗	2	2							1										
	IWS-MW-1-091625	↓	1030		5	✗	2	2							1										
	FRIld 61K-091625	↓	1110		5	✗	2	2							1										
Metals: RCRA 8•PP 13•TAL 23•TCLP•Part 375•Other (List)				Turnaround Requirements				Report Requirements				Invoice To: (Same as Report To)													
VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM•Part 375 • Other (List)				*Rush (Surcharges Apply)				Tier II/Cat A - Results/QC				PO #:													
Special Instructions / Comments:				*Subject to Availability*				Tier IV/Cat B - Data				Company:													
ms/msd collected on IWS-SD1-091625				*Please Check with your PM*				Validation Report w/. Data				Contact:													
				Standard (10 Business Days)				EDD: Yes No				Email:													
				TAT / Date Required:				EDD Type:				Phone:													
Relinquished By / Company Name		Date	Time	Received By / Company Name																					
1 Steve Walshe				2																					
3 Steve Walshe		9-16-25	1130	4																					
5		9/17/25	11:25	6																					
7				8																					





Cooler Receipt and Preservation

R2511737

5

Olin Corporation
Industrial WeldingProject/Client Olin Corp Folder NumberCooler received on 9/17/05by: HECOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings Date: 9/17/05 Time: 11:32 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	2.3						
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

All samples held in storage location: SMD by HE on 9/17/05 at 11:35
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 9/17/05 Time: 13:24 by: HE

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

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
>12		NaOH								
≤2	<u>204524</u>	HNO ₃	<u>X</u>		<u>24017806</u>	<u>01/07</u>				
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

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

Bottle lot numbers: 071425-2AES 100824-165

Explain all Discrepancies/ Other Comments:

Did not receive a field Blank location.

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: HE

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



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

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

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845

Service Request: R2511737

Sample Name: IWS-SD1-091625
Lab Code: R2511737-001
Sample Matrix: Water

Date Collected: 09/16/25
Date Received: 09/17/25

Analysis Method

7470A
8081B
8270E

Extracted/Digested By

ECASTROVINCI
JVANHEYNINGEN
JVANHEYNINGEN

Analyzed By

ECASTROVINCI
AFELSER
AMOSSES

Sample Name: IWS-MW-2-091625
Lab Code: R2511737-002
Sample Matrix: Water

Date Collected: 09/16/25
Date Received: 09/17/25

Analysis Method

7470A
8081B
8270E

Extracted/Digested By

ECASTROVINCI
JVANHEYNINGEN
JVANHEYNINGEN

Analyzed By

ECASTROVINCI
AFELSER
AMOSSES

Sample Name: IWS-MW-1-091625
Lab Code: R2511737-003
Sample Matrix: Water

Date Collected: 09/16/25
Date Received: 09/17/25

Analysis Method

7470A
8081B
8270E

Extracted/Digested By

ECASTROVINCI
JVANHEYNINGEN
JVANHEYNINGEN

Analyzed By

ECASTROVINCI
AFELSER
AMOSSES



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 / 200.8	200.2
6010D	3005A/3010A
6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25 08:45
Date Received: 09/17/25 11:25

Sample Name: IWS-SD1-091625
Lab Code: R2511737-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	9.6 U	9.6	1.3	1	09/24/25 15:06	9/23/25	
Acenaphthene	9.6 U	9.6	1.4	1	09/24/25 15:06	9/23/25	
Acenaphthylene	9.6 U	9.6	1.4	1	09/24/25 15:06	9/23/25	
Anthracene	9.6 U	9.6	1.3	1	09/24/25 15:06	9/23/25	
Benz(a)anthracene	9.6 U	9.6	1.6	1	09/24/25 15:06	9/23/25	
Benzo(a)pyrene	9.6 U	9.6	1.2	1	09/24/25 15:06	9/23/25	
Benzo(b)fluoranthene	9.6 U	9.6	1.2	1	09/24/25 15:06	9/23/25	
Benzo(g,h,i)perylene	9.6 U	9.6	2.1	1	09/24/25 15:06	9/23/25	
Benzo(k)fluoranthene	9.6 U	9.6	1.3	1	09/24/25 15:06	9/23/25	
Chrysene	9.6 U	9.6	1.2	1	09/24/25 15:06	9/23/25	
Dibenz(a,h)anthracene	9.6 U	9.6	1.1	1	09/24/25 15:06	9/23/25	
Fluoranthene	9.6 U	9.6	1.5	1	09/24/25 15:06	9/23/25	
Fluorene	9.6 U	9.6	1.3	1	09/24/25 15:06	9/23/25	
Indeno(1,2,3-cd)pyrene	9.6 U	9.6	1.8	1	09/24/25 15:06	9/23/25	
Naphthalene	9.6 U	9.6	1.2	1	09/24/25 15:06	9/23/25	
Phenanthrene	9.6 U	9.6	1.4	1	09/24/25 15:06	9/23/25	
Pyrene	9.6 U	9.6	1.5	1	09/24/25 15:06	9/23/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	63	25 - 99	09/24/25 15:06	
Nitrobenzene-d5	71	22 - 104	09/24/25 15:06	
p-Terphenyl-d14	100	10 - 143	09/24/25 15:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25 09:40
Date Received: 09/17/25 11:25

Sample Name: IWS-MW-2-091625
Lab Code: R2511737-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	9.6 U	9.6	1.3	1	09/24/25 16:18	9/23/25	
Acenaphthene	9.6 U	9.6	1.4	1	09/24/25 16:18	9/23/25	
Acenaphthylene	9.6 U	9.6	1.4	1	09/24/25 16:18	9/23/25	
Anthracene	9.6 U	9.6	1.3	1	09/24/25 16:18	9/23/25	
Benz(a)anthracene	9.6 U	9.6	1.6	1	09/24/25 16:18	9/23/25	
Benzo(a)pyrene	9.6 U	9.6	1.2	1	09/24/25 16:18	9/23/25	
Benzo(b)fluoranthene	9.6 U	9.6	1.2	1	09/24/25 16:18	9/23/25	
Benzo(g,h,i)perylene	9.6 U	9.6	2.1	1	09/24/25 16:18	9/23/25	
Benzo(k)fluoranthene	9.6 U	9.6	1.3	1	09/24/25 16:18	9/23/25	
Chrysene	9.6 U	9.6	1.2	1	09/24/25 16:18	9/23/25	
Dibenz(a,h)anthracene	9.6 U	9.6	1.1	1	09/24/25 16:18	9/23/25	
Fluoranthene	9.6 U	9.6	1.5	1	09/24/25 16:18	9/23/25	
Fluorene	9.6 U	9.6	1.3	1	09/24/25 16:18	9/23/25	
Indeno(1,2,3-cd)pyrene	9.6 U	9.6	1.8	1	09/24/25 16:18	9/23/25	
Naphthalene	9.6 U	9.6	1.2	1	09/24/25 16:18	9/23/25	
Phenanthrene	9.6 U	9.6	1.4	1	09/24/25 16:18	9/23/25	
Pyrene	9.6 U	9.6	1.5	1	09/24/25 16:18	9/23/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	62	25 - 99	09/24/25 16:18	
Nitrobenzene-d5	76	22 - 104	09/24/25 16:18	
p-Terphenyl-d14	112	10 - 143	09/24/25 16:18	

ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25 10:30
Date Received: 09/17/25 11:25

Sample Name: IWS-MW-1-091625
Lab Code: R2511737-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	9.6 U	9.6	1.3	1	09/24/25 16:43	9/23/25	
Acenaphthene	9.6 U	9.6	1.4	1	09/24/25 16:43	9/23/25	
Acenaphthylene	9.6 U	9.6	1.4	1	09/24/25 16:43	9/23/25	
Anthracene	9.6 U	9.6	1.3	1	09/24/25 16:43	9/23/25	
Benz(a)anthracene	9.6 U	9.6	1.6	1	09/24/25 16:43	9/23/25	
Benzo(a)pyrene	9.6 U	9.6	1.2	1	09/24/25 16:43	9/23/25	
Benzo(b)fluoranthene	9.6 U	9.6	1.2	1	09/24/25 16:43	9/23/25	
Benzo(g,h,i)perylene	9.6 U	9.6	2.1	1	09/24/25 16:43	9/23/25	
Benzo(k)fluoranthene	9.6 U	9.6	1.3	1	09/24/25 16:43	9/23/25	
Chrysene	9.6 U	9.6	1.2	1	09/24/25 16:43	9/23/25	
Dibenz(a,h)anthracene	9.6 U	9.6	1.1	1	09/24/25 16:43	9/23/25	
Fluoranthene	9.6 U	9.6	1.5	1	09/24/25 16:43	9/23/25	
Fluorene	9.6 U	9.6	1.3	1	09/24/25 16:43	9/23/25	
Indeno(1,2,3-cd)pyrene	9.6 U	9.6	1.8	1	09/24/25 16:43	9/23/25	
Naphthalene	9.6 U	9.6	1.2	1	09/24/25 16:43	9/23/25	
Phenanthrene	9.6 U	9.6	1.4	1	09/24/25 16:43	9/23/25	
Pyrene	9.6 U	9.6	1.5	1	09/24/25 16:43	9/23/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	68	25 - 99	09/24/25 16:43	
Nitrobenzene-d5	79	22 - 104	09/24/25 16:43	
p-Terphenyl-d14	105	10 - 143	09/24/25 16:43	



Semivolatile Organic Compounds by GC

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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25 08:45
Date Received: 09/17/25 11:25

Sample Name: IWS-SD1-091625
Lab Code: R2511737-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.048 U	0.048	1	09/24/25 15:49	9/18/25	
beta-BHC	0.050	0.048	1	09/24/25 15:49	9/18/25	
delta-BHC	0.048 U	0.048	1	09/24/25 15:49	9/18/25	
gamma-BHC (Lindane)	0.048 U	0.048	1	09/24/25 15:49	9/18/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 111	09/24/25 15:49	
Tetrachloro-m-xylene	68	10 - 101	09/24/25 15:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25 09:40
Date Received: 09/17/25 11:25

Sample Name: IWS-MW-2-091625
Lab Code: R2511737-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.048 U	0.048	1	09/24/25 16:58	9/18/25	
beta-BHC	0.048 U	0.048	1	09/24/25 16:58	9/18/25	
delta-BHC	0.048 U	0.048	1	09/24/25 16:58	9/18/25	
gamma-BHC (Lindane)	0.048 U	0.048	1	09/24/25 16:58	9/18/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 111	09/24/25 16:58	
Tetrachloro-m-xylene	67	10 - 101	09/24/25 16:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25 10:30
Date Received: 09/17/25 11:25

Sample Name: IWS-MW-1-091625
Lab Code: R2511737-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.048 U	0.048	1	09/24/25 17:16	9/18/25	
beta-BHC	0.048 U	0.048	1	09/24/25 17:16	9/18/25	
delta-BHC	0.048 U	0.048	1	09/24/25 17:16	9/18/25	
gamma-BHC (Lindane)	0.048 U	0.048	1	09/24/25 17:16	9/18/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	10 - 111	09/24/25 17:16	
Tetrachloro-m-xylene	74	10 - 101	09/24/25 17:16	



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Form 1

Inorganic Analysis Data Sheet

Mercury by EPA 7470A (CV)

Workorder

R2511737

Client

Olin Corporation

Project

Industrial Welding

09/29/2025

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Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2511737

Mercury by EPA 7470A (CV)

IWS-SD1-091625	Collected	Received	Matrix	Prep Method
R2511737-001	09/16/25 0845	09/17/25 1125	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	1.59		ug/L	0.08	0.20	1	09/23/25 12:03	R-CVAA-03_894269	464570

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2511737

Mercury by EPA 7470A (CV)

IWS-MW-2-091625	Collected	Received	Matrix	Prep Method
R2511737-002	09/16/25 0940	09/17/25 1125	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	09/23/25 12:10	R-CVAA-03_894269	464570

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2511737

Mercury by EPA 7470A (CV)

IWS-MW-1-091625	Collected	Received	Matrix	Prep Method
R2511737-003	09/16/25 1030	09/17/25 1125	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	09/23/25 12:13	R-CVAA-03_894269	464570

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2511737

Mercury by EPA 7470A (CV)

Method Blank	Matrix	Prep Method
R2511737-MB	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	09/23/25 11:04	R-CVAA-03_894269	464570

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



QC Summary Forms

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Semivolatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Extraction Method: EPA 3510C

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		25 - 99	22 - 104	10 - 143
IWS-SD1-091625	R2511737-001	63	71	100
IWS-MW-2-091625	R2511737-002	62	76	112
IWS-MW-1-091625	R2511737-003	68	79	105
Method Blank	RQ2513082-01	64	78	113
Lab Control Sample	RQ2513082-02	76	80	111
Duplicate Lab Control Sample	RQ2513082-03	74	83	120
IWS-SD1-091625 MS	RQ2513082-04	74	80	99
IWS-SD1-091625 DMS	RQ2513082-05	80	84	104

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25
Date Received: 09/17/25
Date Analyzed: 09/24/25
Date Extracted: 09/23/25

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: IWS-SD1-091625
Lab Code: R2511737-001
Analysis Method: 8270E
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2513082-04			Duplicate Matrix Spike RQ2513082-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
2-Methylnaphthalene	9.6 U	47.3	76.9	61	49.3	78.4	63	34-102	4	30
Acenaphthene	9.6 U	59.1	76.9	77	57.5	78.4	73	43-117	3	30
Acenaphthylene	9.6 U	63.6	76.9	83	62.7	78.4	80	45-119	1	30
Anthracene	9.6 U	65.6	76.9	85	62.3	78.4	79	45-127	5	30
Benz(a)anthracene	9.6 U	70.4	76.9	92	67.6	78.4	86	46-126	4	30
Benzo(a)pyrene	9.6 U	72.3	76.9	94	68.1	78.4	87	44-114	6	30
Benzo(b)fluoranthene	9.6 U	60.5	76.9	79	57.5	78.4	73	41-127	5	30
Benzo(g,h,i)perylene	9.6 U	61.8	76.9	80	56.6	78.4	72	50-143	9	30
Benzo(k)fluoranthene	9.6 U	70.8	76.9	92	68.4	78.4	87	46-139	4	30
Chrysene	9.6 U	75.6	76.9	98	71.8	78.4	92	47-126	5	30
Dibenz(a,h)anthracene	9.6 U	58.4	76.9	76	55.9	78.4	71	43-136	4	30
Fluoranthene	9.6 U	63.0	76.9	82	60.6	78.4	77	43-135	4	30
Fluorene	9.6 U	62.4	76.9	81	60.3	78.4	77	43-113	3	30
Indeno(1,2,3-cd)pyrene	9.6 U	56.5	76.9	73	53.0	78.4	68	49-140	6	30
Naphthalene	9.6 U	50.2	76.9	65	53.2	78.4	68	37-108	6	30
Phenanthrene	9.6 U	62.0	76.9	81	58.5	78.4	75	46-123	6	30
Pyrene	9.6 U	71.5	76.9	93	66.2	78.4	84	44-129	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2513082-01

Service Request: R2511737
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	10 U	10	1.3	1	09/24/25 13:29	9/23/25	
Acenaphthene	10 U	10	1.4	1	09/24/25 13:29	9/23/25	
Acenaphthylene	10 U	10	1.4	1	09/24/25 13:29	9/23/25	
Anthracene	10 U	10	1.3	1	09/24/25 13:29	9/23/25	
Benz(a)anthracene	10 U	10	1.6	1	09/24/25 13:29	9/23/25	
Benzo(a)pyrene	10 U	10	1.2	1	09/24/25 13:29	9/23/25	
Benzo(b)fluoranthene	10 U	10	1.2	1	09/24/25 13:29	9/23/25	
Benzo(g,h,i)perylene	10 U	10	2.1	1	09/24/25 13:29	9/23/25	
Benzo(k)fluoranthene	10 U	10	1.3	1	09/24/25 13:29	9/23/25	
Chrysene	10 U	10	1.2	1	09/24/25 13:29	9/23/25	
Dibenz(a,h)anthracene	10 U	10	1.1	1	09/24/25 13:29	9/23/25	
Fluoranthene	10 U	10	1.5	1	09/24/25 13:29	9/23/25	
Fluorene	10 U	10	1.3	1	09/24/25 13:29	9/23/25	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	09/24/25 13:29	9/23/25	
Naphthalene	10 U	10	1.2	1	09/24/25 13:29	9/23/25	
Phenanthrene	10 U	10	1.4	1	09/24/25 13:29	9/23/25	
Pyrene	10 U	10	1.5	1	09/24/25 13:29	9/23/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	25 - 99	09/24/25 13:29	
Nitrobenzene-d5	78	22 - 104	09/24/25 13:29	
p-Terphenyl-d14	113	10 - 143	09/24/25 13:29	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Analyzed: 09/24/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2513082-02					Duplicate Lab Control Sample RQ2513082-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	8270E	49.9	80.0	62	47.3	80.0	59	35-94	5	30
Acenaphthene	8270E	60.1	80.0	75	58.9	80.0	74	46-103	2	30
Acenaphthylene	8270E	65.4	80.0	82	63.5	80.0	79	51-114	3	30
Anthracene	8270E	75.0	80.0	94	75.5	80.0	94	61-115	<1	30
Benz(a)anthracene	8270E	75.3	80.0	94	81.8	80.0	102	60-110	8	30
Benzo(a)pyrene	8270E	82.9	80.0	104	83.3	80.0	104	68-137	<1	30
Benzo(b)fluoranthene	8270E	68.1	80.0	85	69.8	80.0	87	59-114	2	30
Benzo(g,h,i)perylene	8270E	71.7	80.0	90	69.9	80.0	87	60-123	3	30
Benzo(k)fluoranthene	8270E	82.2	80.0	103	82.4	80.0	103	62-122	<1	30
Chrysene	8270E	81.1	80.0	101	88.7	80.0	111	64-116	9	30
Dibenz(a,h)anthracene	8270E	70.4	80.0	88	67.6	80.0	85	34-140	4	30
Fluoranthene	8270E	72.5	80.0	91	74.1	80.0	93	58-129	2	30
Fluorene	8270E	67.5	80.0	84	66.4	80.0	83	54-111	2	30
Indeno(1,2,3-cd)pyrene	8270E	66.7	80.0	83	64.1	80.0	80	54-119	4	30
Naphthalene	8270E	54.0	80.0	67	51.9	80.0	65	32-91	4	30
Phenanthrene	8270E	69.6	80.0	87	70.0	80.0	87	60-111	<1	30
Pyrene	8270E	76.1	80.0	95	80.2	80.0	100	62-111	5	30



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 111	10 - 101
IWS-SD1-091625	R2511737-001	42	68
IWS-MW-2-091625	R2511737-002	66	67
IWS-MW-1-091625	R2511737-003	50	74
Method Blank	RQ2512808-01	83	69
Lab Control Sample	RQ2512808-02	83	66
Duplicate Lab Control Sample	RQ2512808-03	74	55
IWS-SD1-091625 MS	RQ2512808-04	48	75
IWS-SD1-091625 DMS	RQ2512808-05	32	47

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Collected: 09/16/25
Date Received: 09/17/25
Date Analyzed: 09/24/25
Date Extracted: 09/18/25

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: IWS-SD1-091625
Lab Code: R2511737-001
Analysis Method: 8081B
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount				
alpha-BHC	0.048 U	0.334	0.385	87	0.218	0.385	57	27-154	42*	30
beta-BHC	0.050	0.367	0.385	82	0.272	0.385	58	32-184	30	30
delta-BHC	0.048 U	0.337	0.385	88	0.236	0.385	61	10-182	35*	30
gamma-BHC (Lindane)	0.048 U	0.348	0.385	91	0.230	0.385	60	43-164	41*	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2512808-01

Service Request: R2511737
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.050 U	0.050	1	09/24/25 14:05	9/18/25	
beta-BHC	0.050 U	0.050	1	09/24/25 14:05	9/18/25	
delta-BHC	0.050 U	0.050	1	09/24/25 14:05	9/18/25	
gamma-BHC (Lindane)	0.050 U	0.050	1	09/24/25 14:05	9/18/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	83	10 - 111	09/24/25 14:05	
Tetrachloro-m-xylene	69	10 - 101	09/24/25 14:05	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/release order ERRE9845
Sample Matrix: Water

Service Request: R2511737
Date Analyzed: 09/24/25

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2512808-02					RQ2512808-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
alpha-BHC	8081B	0.356	0.400	89	0.311	0.400	78	39-107	13	30
beta-BHC	8081B	0.365	0.400	91	0.319	0.400	80	47-110	13	30
delta-BHC	8081B	0.370	0.400	93	0.322	0.400	81	43-109	14	30
gamma-BHC (Lindane)	8081B	0.366	0.400	91	0.317	0.400	79	41-105	14	30



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Form 3

Blanks

Mercury by EPA 7470A (CV)

Workorder

R2511737

Client

Olin Corporation

Project

Industrial Welding

09/29/2025

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Form 3 - Blanks

Client Olin Corporation
Project Industrial Welding

Workorder
R2511737

Mercury by EPA 7470A (CV)

R-CVAA-03_894269			ICB		CCB		CCB		CCB		CCB		CCB	
			Run Date		09/23/25		09/23/25		09/23/25		09/23/25		09/23/25	
			Run Time		09:33		10:36		11:02		11:32		11:58	
			Units		ppb		ppb		ppb		ppb		ppb	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Mercury	0.08	0.20	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Q - Result Flag * - Result Above Limit

Form 5A

Matrix Spike Sample Recovery

Mercury by EPA 7470A (CV)

Workorder

R2511737

Client

Olin Corporation

Project

Industrial Welding

09/29/2025

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Form 5A - Matrix Spike Sample Recovery

Client Olin Corporation

Project Industrial Welding

Workorder

R2511737

Mercury by EPA 7470A (CV)

RunID

R-CVAA-03-894269

IWS-SD1-091625 (R2511737-001)					001MS			001DMS							
Sample Matrix		Water		Analysis Batch		894269		Run Date		09/23/25		Run Date		09/23/25	
Result Units		ug/L		Prep Batch		464570		Run Time		12:05		Run Time		12:08	
Prep Method		Method		Prep Date		09/22/25		Prep Amt		25 mL		Prep Amt		25 mL	
Analyte		%R Limits	DF	Sample Result	Spike Added	MS Result	%R	Q	DMS Result	%R	Q	RPD	Q	RPD Limit	
Mercury, Total		75 - 125	1	1.59	1.00	2.23	64	*	2.52	93		12		20	

RPD Relative Percent Difference

%R %Recovery

Q %R or RPD Flag

NC Not Calculated

DO Diluted Out

MS\D Matrix Spike \Duplicate

DF Dilution Factor

***** %R or RPD Outside Limits

NS Not Spiked

Amt weight or volume



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Form 7

Laboratory Control Sample

Mercury by EPA 7470A (CV)

Workorder

R2511737

Client

Olin Corporation

Project

Industrial Welding

09/29/2025

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Form 7 - Laboratory Control Sample

Client Olin Corporation

Project Industrial Welding

Workorder

R2511737

Mercury by EPA 7470A (CV)

RunID

R-CVAA-03-894269

R-CVAA-03_894269			R2511737-LCS			
Spike Matrix	Water	Analysis Batch	894269	Run Date	09/23/25	
Result Units	ug/L	Prep Batch	464570	Run Time	11:07	
Prep Method	Method	Prep Date	09/22/2025	Prep Amt	25 mL	
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Mercury	80-120	1.00	1.01	101		



November 19, 2025

Service Request No:R2514437

Adam Carringer
Olin Corporation
490 Stuart Road
Cleveland, TN 37312

Laboratory Results for: Olin Industrial Welding Site

Dear Adam,

Enclosed are the results of the sample(s) submitted to our laboratory November 05, 2025
For your reference, these analyses have been assigned our service request number **R2514437**.

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 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Randy Morris

ADDRESS

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

PHONE

+1 585 288 5380

FAX

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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

www.alsglobal.com



Client: Olin Corporation
Project: Olin Industrial Welding Site
Sample Matrix: Water

Service Request: R2514437
Date Received: 11/05/2025

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 level IV requested by the client.

Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an "m" next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of "manipulated" or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or "M" by the result in the "Type" column (anions). The reason for the manual integration is noted on the "after" chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT "Manual Integration."

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 11/05/2025. 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.

Semivolatile GC:

No significant anomalies were noted with this analysis.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 624, 11/06/2025: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by 

Date 11/19/2025



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

www.alsglobal.com

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845

Service Request:R2514437

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2514437-001	IWS-MS1-110425	11/4/2025	1130
R2514437-002	Trip Blank	11/4/2025	



Chain of Custody / Analytical Request Form

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

084936

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
 353.2 NO₂ ; OPO4 ; 300/9056A NO₂/NO₃ ; Sulfide
 RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
 Color ; Turbidity ; Set Solids

Report To:		ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER		Preservative →		0-None, 1-HCl, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-NaOH, 5-ZnAc, 6-MeOH, 7-NaHSO ₄ , 8-Other															
Company: <u>Olin Corp</u>		Project Name: <u>Olin Industrial Welding Site</u>		→		0 0 2 0 0 ↓ Tests / Analytes Requested ↓															
Contact: <u>Adam Geringer</u>		Project Number:																			
Email: <u>ABGeringer@Olin.com</u>		ALS Quote #:		DOD? Y / N																	
Phone: <u>423-336-4000</u>		Sampler's Signature: <u>[Signature]</u>																			
Address: <u>490 Stuart Rd</u>		Email CC: <u>ABGeringer@Olin.com</u>																			
<u>Cleveland, TN 37312</u>		Email CC:																			
		State Samples Collected (Circle or Write): <u>(NY)</u> MA, PA, CT, Other:																			
Lab ID (ALS)	Sample Collection Information:			Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260 • 524 • TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter								
	Sample ID / Name of Collection Point:	Date	Time																		
	IWS-MS 1-110425	11/5/25	1130	GW	31	Y	9	4				3		3	12						
	Trip Blank	10/29/25	1027	-	2													lab provided			
	Temp Blank			-	1													lab provided			
Metals: RCRA 8 • PP 13 • TAL 23 • TCLP • Part 375 • Other (List)				Turnaround Requirements			Report Requirements			Invoice To: (□ Same as Report To)											
VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Part 375 • Other (List)				* Rush (Surcharges Apply)			* Tier II/Cat A - Results/QC			PO #:											
Special Instructions / Comments:				* Subject to Availability*			* Tier IV/Cat B - Data			Company: <u>Olin Corp</u>											
<u>Metals, total Hg</u>				* Please Check with your PM*			Validation Report w/. Data			Contact: <u>Adam Geringer</u>											
<u>DOC Samples Field Filtered to 0.45 µm</u>				<u>X</u> Standard (10 Business Days)			EDD: Yes No			Email:											
				TAT / Date Required:			EDD Type:			Phone:											
Relinquished By / Company Name			Date	Time	Received By / Company Name			Address:													
1	<u>[Signature]</u> <u>Gregory J. Swanson</u>		11/5/25	1400	2 <u>[Signature]</u> <u>ALS</u>			R2514437 5 Olin Corporation Olin Industrial Welding Site 													
3			11/5/25	10:00	4																
5					6																
7					8																
							Page <u>1</u> of <u>1</u>														



R2514437

5

Olin Corporation
Olin Industrial Welding Site

Cooler Receipt and Preservation Check

Project/Client

Olin Corp

Folder Number

Cooler received on

11/5/25

by:

HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

8. Temperature Readings

Date: 11/5/25

Time: 10:06

ID: IR#12 IR#11

From: Temp Blank

Sample Bottle

Temp (°C)							
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition:

Ice melted

Poorly Packed (described below)

Same Day Rule

& Client Approval to Run Samples:

Standing Approval

Client aware at drop-off

Client notified by:

All samples held in storage location:

SMD

by

HE

on

11/5/25

at

1013

5035 samples placed in storage location:

by

HE

on

11/5/25

at

1013

within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date:

Time:

by:

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

YES NO

10. Did all bottle labels and tags agree with custody papers?

YES NO

11. Were correct containers used for the tests indicated?

YES NO

12. Were 5035 vials acceptable (no extra labels, not leaking)?

YES NO N/A

13. Were dissolved metals filtered in the field?

YES NO N/A

14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.

Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers:

Explain all Discrepancies/ Other Comments:

2) Wrong sample date on LOC for IWS-M31, and also wrong relinquishing date
 Sample I assumed a sample date of 11/4/25
 HE

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by:

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



Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

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

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Olin Corporation**Service Request:** R2514437**Project:** Olin Industrial Welding Site/release order ERRE9845**Sample Name:** IWS-MS1-110425**Date Collected:** 11/4/25**Lab Code:** R2514437-001**Date Received:** 11/5/25**Sample Matrix:** Water**Analysis Method**

245.1

608 Modified

624

SM 2540 D-2015

SM 5310 B-2014

Extracted/Digested By

ECASTROVINCI

JVANHEYNINGEN

Analyzed By

ECASTROVINCI

AFELSER

KRUEST

SCLOSE

KAWONG

Sample Name: IWS-MS1-110425**Date Collected:** 11/4/25**Lab Code:** R2514437-001.R01**Date Received:** 11/5/25**Sample Matrix:** Water**Analysis Method**

624

Extracted/Digested By**Analyzed By**

JMCCAFFERY

Sample Name: Trip Blank**Date Collected:** 11/4/25**Lab Code:** R2514437-002**Date Received:** 11/5/25**Sample Matrix:** Water**Analysis Method**

624

Extracted/Digested By**Analyzed By**

JMCCAFFERY



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 / 200.8	200.2
6010D	3005A/3010A
6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001

Service Request: R2514437
Date Collected: 11/04/25 11:30
Date Received: 11/05/25 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/06/25 14:58	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/06/25 14:58	
Acetone	5.00 U	5.00	2.10	1	11/06/25 14:58	
Trichloroethene (TCE)	2.54	1.00	0.200	1	11/06/25 14:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	107	73 - 125	11/06/25 14:58	
4-Bromofluorobenzene	112	85 - 122	11/06/25 14:58	
Toluene-d8	99	87 - 121	11/06/25 14:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R2514437-002

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25 13:33

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/06/25 14:35	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/06/25 14:35	
Acetone	5.00 U	5.00	2.10	1	11/06/25 14:35	
Trichloroethene (TCE)	1.00 U	1.00	0.200	1	11/06/25 14:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	73 - 125	11/06/25 14:35	
4-Bromofluorobenzene	109	85 - 122	11/06/25 14:35	
Toluene-d8	100	87 - 121	11/06/25 14:35	



Semivolatile Organic Compounds by GC

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ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001

Service Request: R2514437
Date Collected: 11/04/25 11:30
Date Received: 11/05/25 10:00

Units: ug/L
Basis: NA

Organochlorine Pesticides by GC/ECD

Analysis Method: 608.3
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.0481 U	0.0481	0.0200	1	11/12/25 21:38	11/6/25	
beta-BHC	0.0220 J	0.0481	0.0200	1	11/12/25 21:38	11/6/25	
delta-BHC	0.0481 U	0.0481	0.0200	1	11/12/25 21:38	11/6/25	
gamma-BHC (Lindane)	0.0481 U	0.0481	0.0200	1	11/12/25 21:38	11/6/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	61	10 - 95	11/12/25 21:38	
Decachlorobiphenyl	51	10 - 110	11/12/25 21:38	



Metals

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right solutions.
right partner.

Form 1

Inorganic Analysis Data Sheet

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

**ALS Environmental
Rochester Laboratory**

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Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

IWS-MS1-110425	Collected	Received	Matrix	Prep Method
R2514437-001	11/04/25 1130	11/05/25 1000	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	1.17		ug/L	0.08	0.20	1	11/10/25 15:28	R-CVAA-03_900192	467262

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

Method Blank	Matrix	Prep Method
R2514437-MB	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	11/10/25 12:18	R-CVAA-03_900192	467262

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



General Chemistry

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water
Sample Name: IWS-MS1-110425
Lab Code: R2514437-001

Service Request: R2514437
Date Collected: 11/04/25 11:30
Date Received: 11/05/25 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	3.1	mg/L	1.0	1	11/08/25 12:15	
Solids, Total Suspended (TSS)	SM 2540 D-2015	8.6	mg/L	1.0	1	11/07/25 10:00	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation

Service Request: R2514437

Project: Olin Industrial Welding Site/release order ERRE9845

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Toluene-d8
		73 - 125	85 - 122	87 - 121
IWS-MS1-110425	R2514437-001	107	112	99
Trip Blank	R2514437-002	106	109	100
Lab Control Sample	RQ2515958-02	98	103	99
Method Blank	RQ2515958-03	103	100	99
Lab Control Sample	RQ2516161-03	93	106	98
Method Blank	RQ2516161-04	94	103	98
IWS-MS1-110425 MS	RQ2516161-05	92	98	98
IWS-MS1-110425 DMS	RQ2516161-06	91	107	99

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25
Date Analyzed: 11/10/25

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Analysis Method: 624.1

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2516161-05			Duplicate Matrix Spike RQ2516161-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1-Dichloroethane (1,1-DCA)	1.00 U	49.0	50.0	98	50.5	50.0	101	59-155	3	40
1,2-Dichloroethane	1.00 U	49.9	50.0	100	50.3	50.0	101	49-155	<1	49
Acetone	5.00 U	40.5	50.0	81	42.5	50.0	85	35-183	5	30
Trichloroethene (TCE)	2.54	58.4	50.0	112	58.5	50.0	112	70-157	<1	48

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2515958-03

Service Request: R2514437
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/06/25 12:07	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/06/25 12:07	
Acetone	5.00 U	5.00	2.10	1	11/06/25 12:07	
Trichloroethene (TCE)	1.00 U	1.00	0.200	1	11/06/25 12:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	73 - 125	11/06/25 12:07	
4-Bromofluorobenzene	100	85 - 122	11/06/25 12:07	
Toluene-d8	99	87 - 121	11/06/25 12:07	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2516161-04

Service Request: R2514437
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 624.1

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1-Dichloroethane (1,1-DCA)	1.00 U	1.00	0.200	1	11/10/25 12:51	
1,2-Dichloroethane	1.00 U	1.00	0.200	1	11/10/25 12:51	
Acetone	5.00 U	5.00	2.10	1	11/10/25 12:51	
Trichloroethene (TCE)	1.00 U	1.00	0.200	1	11/10/25 12:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	73 - 125	11/10/25 12:51	
4-Bromofluorobenzene	103	85 - 122	11/10/25 12:51	
Toluene-d8	98	87 - 121	11/10/25 12:51	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/06/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ2515958-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethane (1,1-DCA)	624.1	18.2	20.0	91	70-130
1,2-Dichloroethane	624.1	20.2	20.0	101	70-130
Acetone	624.1	13.7	20.0	68	40-161
Trichloroethene (TCE)	624.1	19.6	20.0	98	65-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/10/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/L
Basis:NA

Lab Control Sample
RQ2516161-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1-Dichloroethane (1,1-DCA)	624.1	19.8	20.0	99	70-130
1,2-Dichloroethane	624.1	20.0	20.0	100	70-130
Acetone	624.1	15.9	20.0	80	40-161
Trichloroethene (TCE)	624.1	21.7	20.0	108	65-135



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by GC/ECD

Analysis Method: 608.3
Extraction Method: Method

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 110	10 - 95
IWS-MS1-110425	R2514437-001	51	61
Method Blank	RQ2515940-01	66	62
Lab Control Sample	RQ2515940-02	60	68
Duplicate Lab Control Sample	RQ2515940-03	63	67
IWS-MS1-110425 MS	RQ2515940-06	48	59
IWS-MS1-110425 DMS	RQ2515940-07	54	62

ALS Group USA, Corp.
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QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25
Date Analyzed: 11/12/25
Date Extracted: 11/6/25

Duplicate Matrix Spike Summary
Organochlorine Pesticides by GC/ECD

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Analysis Method: 608.3
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount				
			RQ2515940-06			RQ2515940-07				
alpha-BHC	0.0481 U	0.278	0.385	72	0.287	0.385	75	37-140	3	36
beta-BHC	0.0220 J	0.307	0.385	74	0.311	0.385	75	17-147	1	44
delta-BHC	0.0481 U	0.329	0.385	86	0.333	0.385	86	19-140	<1	52
gamma-BHC (Lindane)	0.0481 U	0.283	0.385	74	0.289	0.385	75	32-140	2	39

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2515940-01

Service Request: R2514437
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Organochlorine Pesticides by GC/ECD

Analysis Method: 608.3
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	
beta-BHC	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	
delta-BHC	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	
gamma-BHC (Lindane)	0.0500 U	0.0500	0.0200	1	11/12/25 19:37	11/6/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	62	10 - 95	11/12/25 19:37	
Decachlorobiphenyl	66	10 - 110	11/12/25 19:37	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/12/25

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by GC/ECD

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2515940-02					RQ2515940-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
alpha-BHC	608.3	0.297	0.400	74	0.297	0.400	74	37-140	<1	36
beta-BHC	608.3	0.295	0.400	74	0.293	0.400	73	17-147	<1	44
delta-BHC	608.3	0.325	0.400	81	0.334	0.400	84	19-140	3	52
gamma-BHC (Lindane)	608.3	0.296	0.400	74	0.299	0.400	75	32-140	1	39



Metals

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Form 3

Blanks

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 3 - Blanks

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

R-CVAA-03_900192			ICB		CCB		CCB		CCB		CCB		CCB	
			Run Date		11/10/25		11/10/25		11/10/25		11/10/25		11/10/25	
			Run Time		12:08		12:16		14:50		15:15		15:43	
			Units		ppb		ppb		ppb		ppb		ppb	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Mercury	0.08	0.20	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Q - Result Flag * - Result Above Limit

Form 5A

Matrix Spike Sample Recovery

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 5A - Matrix Spike Sample Recovery

Client Olin Corporation

Project Olin Industrial Welding Site

Workorder

R2514437

Mercury by EPA 245.1 (CV)

RunID

R-CVAA-03-900192

IWS-MS1-110425 (R2514437-001)					001MS			001DMS							
Sample Matrix		Water		Analysis Batch		900192		Run Date		11/10/25		Run Date		11/10/25	
Result Units		ug/L		Prep Batch		467262		Run Time		15:31		Run Time		15:33	
Prep Method		Method		Prep Date		11/07/25		Prep Amt		25 mL		Prep Amt		25 mL	
Analyte		%R Limits	DF	Sample Result	Spike Added	MS Result	%R	Q	DMS Result	%R	Q	RPD	Q	RPD Limit	
Mercury, Total		70 - 130	1	1.17	1.00	2.35	118		2.13	96		10		20	

RPD Relative Percent Difference

%R %Recovery

Q %R or RPD Flag

NC Not Calculated

DO Diluted Out

MS\D Matrix Spike \Duplicate

DF Dilution Factor

***** %R or RPD Outside Limits

NS Not Spiked

Amt weight or volume

Form 7

Laboratory Control Sample

Mercury by EPA 245.1 (CV)

Workorder

R2514437

Client

Olin Corporation

Project

Olin Industrial Welding Site

11/18/2025

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Form 7 - Laboratory Control Sample

Client Olin Corporation
Project Olin Industrial Welding Site

Workorder
R2514437

Mercury by EPA 245.1 (CV)

RunID
R-CVAA-03-900192

R-CVAA-03_900192			R2514437-LCS			
Spike Matrix	Water	Analysis Batch	900192	Run Date	11/10/25	
Result Units	ug/L	Prep Batch	467262	Run Time	12:21	
Prep Method	Method	Prep Date	11/07/2025	Prep Amt	25 mL	
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Mercury	85-115	1.00	1.04	104		



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2514437-MB

Service Request: R2514437
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	11/08/25 09:57	
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0 U	mg/L	1.0	1	11/07/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Collected: 11/04/25
Date Received: 11/05/25
Date Analyzed: 11/8/25

Duplicate Matrix Spike Summary
Carbon, Dissolved Organic (DOC)

Sample Name: IWS-MS1-110425
Lab Code: R2514437-001
Analysis Method: SM 5310 B-2014

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2514437-001MS			Duplicate Matrix Spike R2514437-001DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Dissolved Organic (DOC)	3.1	29.2	25.0	104	28.7	25.0	102	48-135	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

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Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437**Date Collected:** 11/04/25**Date Received:** 11/05/25**Date Analyzed:** 11/07/25**Replicate Sample Summary
General Chemistry Parameters****Sample Name:** IWS-MS1-110425**Units:** mg/L**Lab Code:** R2514437-001**Basis:** NA

				Duplicate Sample R2514437- 001DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Solids, Total Suspended (TSS)	SM 2540 D-2015	1.0	8.6	8.6	8.60	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Olin Industrial Welding Site/release order ERRE9845
Sample Matrix: Water

Service Request: R2514437
Date Analyzed: 11/07/25 - 11/08/25

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2514437-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Dissolved Organic (DOC)	SM 5310 B-2014	27.1	25.0	108	80-121
Solids, Total Suspended (TSS)	SM 2540 D-2015	107	100	107	80-120



April 06, 2026

Service Request No:R2604024

Adam Carringer
Olin Corporation
490 Stuart Road
Cleveland, TN 37312

Laboratory Results for: Industrial Welding

Dear Adam,

Enclosed are the results of the sample(s) submitted to our laboratory March 25, 2026
For your reference, these analyses have been assigned our service request number **R2604024**.

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 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

CC: Randy Morris

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Client: Olin Corporation
Project: Industrial Welding
Sample Matrix: Water

Service Request: R2604024
Date Received: 03/25/2026

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 level IV requested by the client.

Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an "m" next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of "manipulated" or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or "M" by the result in the "Type" column (anions). The reason for the manual integration is noted on the "after" chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT "Manual Integration."

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 03/25/2026. 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.

Semivolatiles by GC/MS:

Method 8270E, 04/01/2026: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Semivolatile GC:

Method 8081B, 03/31/2026: The upper control criterion was exceeded for one or more analytes in the Duplicate Laboratory Control Sample (DLCS). Laboratory Control Sample (LCS) recoveries acceptable. There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Metals:

No significant anomalies were noted with this analysis.

Approved by 

Date 04/06/2026



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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Client: Olin Corporation
Project: Industrial Welding/5300013764

Service Request:R2604024

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2604024-001	IWS-SD1-032426	3/24/2026	0945
R2604024-002	IWS-MW2-032426	3/24/2026	1030
R2604024-003	IWS-MW1-032426	3/24/2026	1055



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Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300/9056A NO2/NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

[illegible]



R2604024

5

Olin Corporation
Industrial Welding

Cooler Receipt and Preservation

Project/Client Olin Corporation

Folder Number

Cooler received on 3/25/26by: RMCOURIER: ALS UPS FEDEX PDQ USPS CLIENT

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

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

8. Temperature Readings Date: 3/25/26 Time: 9:53ID: IR#11 IR#12 IR#13 From: Temp Blank Sample Bottle

Temp (°C)	<u>26</u>						
Within 0-6°C?	<u>Y</u> <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition:

Ice melted: Poorly Packed (described below)

Same Day Rule

& Client Approval to Run Samples:

Standing Approval

Client aware at drop-off

Client notified by:

All samples held in storage location:

S/MOby RMon 3/25at 10:03

5035 samples placed in storage location:

by

on

at

within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/25/26Time: 12:24by: RM

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?

YES NO

10. Did all bottle labels and tags agree with custody papers?

YES NO

11. Were correct containers used for the tests indicated?

YES NO

12. Were 5035 vials acceptable (no extra labels, not leaking)?

YES NO N/A

13. Were dissolved metals filtered in the field?

YES NO N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH							
≤2	<u>202325</u>	HNO ₃	<u>✓</u>	<u>24023666</u>	<u>7/27</u>				
≤2		H ₂ SO ₄							
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate							
		HCl	**	**					

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

Bottle lot numbers:

020226-2AES, 111025-4GJ, 111025-2ERL

Explain all Discrepancies/ Other Comments:

3) MW-1 112 8270 bottles broken

Labels secondary reviewed by:

RM

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

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

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

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

ALS Laboratory Group

Acronyms

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

ALS Group USA, Corp.
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Analyst Summary report

Client: Olin Corporation
Project: Industrial Welding/5300013764

Service Request: R2604024

Sample Name: IWS-SD1-032426
Lab Code: R2604024-001
Sample Matrix: Water

Date Collected: 03/24/26
Date Received: 03/25/26

Analysis Method

7470A
8081B
8270E

Extracted/Digested By

ECASTROVINCI
JVANHEYNINGEN
JVANHEYNINGEN

Analyzed By

ECASTROVINCI
AFELSER
AKUSHNIR

Sample Name: IWS-MW2-032426
Lab Code: R2604024-002
Sample Matrix: Water

Date Collected: 03/24/26
Date Received: 03/25/26

Analysis Method

7470A
8081B
8270E

Extracted/Digested By

ECASTROVINCI
JVANHEYNINGEN
JVANHEYNINGEN

Analyzed By

ECASTROVINCI
AFELSER
AKUSHNIR

Sample Name: IWS-MW1-032426
Lab Code: R2604024-003
Sample Matrix: Water

Date Collected: 03/24/26
Date Received: 03/25/26

Analysis Method

7470A
8081B
8270E

Extracted/Digested By

ECASTROVINCI
JVANHEYNINGEN
JVANHEYNINGEN

Analyzed By

ECASTROVINCI
AFELSER
AKUSHNIR



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 / 200.8	200.2
6010D	3005A/3010A
6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

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Semivolatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26 09:45
Date Received: 03/25/26 09:38

Sample Name: IWS-SD1-032426
Lab Code: R2604024-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	10 U	10	1.3	1	03/31/26 23:47	3/27/26	
Acenaphthene	10 U	10	1.4	1	03/31/26 23:47	3/27/26	
Acenaphthylene	10 U	10	1.4	1	03/31/26 23:47	3/27/26	
Anthracene	10 U	10	1.3	1	03/31/26 23:47	3/27/26	
Benz(a)anthracene	10 U	10	1.6	1	03/31/26 23:47	3/27/26	
Benzo(a)pyrene	10 U	10	1.2	1	03/31/26 23:47	3/27/26	
Benzo(b)fluoranthene	10 U	10	1.2	1	03/31/26 23:47	3/27/26	
Benzo(g,h,i)perylene	10 U	10	2.1	1	03/31/26 23:47	3/27/26	
Benzo(k)fluoranthene	10 U	10	1.3	1	03/31/26 23:47	3/27/26	
Chrysene	10 U	10	1.2	1	03/31/26 23:47	3/27/26	
Dibenz(a,h)anthracene	10 U	10	1.1	1	03/31/26 23:47	3/27/26	
Fluoranthene	10 U	10	1.5	1	03/31/26 23:47	3/27/26	
Fluorene	10 U	10	1.3	1	03/31/26 23:47	3/27/26	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	03/31/26 23:47	3/27/26	
Naphthalene	10 U	10	1.2	1	03/31/26 23:47	3/27/26	
Phenanthrene	10 U	10	1.4	1	03/31/26 23:47	3/27/26	
Pyrene	10 U	10	1.5	1	03/31/26 23:47	3/27/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	73	25 - 99	03/31/26 23:47	
Nitrobenzene-d5	78	22 - 104	03/31/26 23:47	
p-Terphenyl-d14	106	10 - 143	03/31/26 23:47	

ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26 10:30
Date Received: 03/25/26 09:38

Sample Name: IWS-MW2-032426
Lab Code: R2604024-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	10 U	10	1.3	1	04/01/26 00:58	3/27/26	
Acenaphthene	10 U	10	1.4	1	04/01/26 00:58	3/27/26	
Acenaphthylene	10 U	10	1.4	1	04/01/26 00:58	3/27/26	
Anthracene	10 U	10	1.3	1	04/01/26 00:58	3/27/26	
Benz(a)anthracene	10 U	10	1.6	1	04/01/26 00:58	3/27/26	
Benzo(a)pyrene	10 U	10	1.2	1	04/01/26 00:58	3/27/26	
Benzo(b)fluoranthene	10 U	10	1.2	1	04/01/26 00:58	3/27/26	
Benzo(g,h,i)perylene	10 U	10	2.1	1	04/01/26 00:58	3/27/26	
Benzo(k)fluoranthene	10 U	10	1.3	1	04/01/26 00:58	3/27/26	
Chrysene	10 U	10	1.2	1	04/01/26 00:58	3/27/26	
Dibenz(a,h)anthracene	10 U	10	1.1	1	04/01/26 00:58	3/27/26	
Fluoranthene	10 U	10	1.5	1	04/01/26 00:58	3/27/26	
Fluorene	10 U	10	1.3	1	04/01/26 00:58	3/27/26	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	04/01/26 00:58	3/27/26	
Naphthalene	10 U	10	1.2	1	04/01/26 00:58	3/27/26	
Phenanthrene	10 U	10	1.4	1	04/01/26 00:58	3/27/26	
Pyrene	10 U	10	1.5	1	04/01/26 00:58	3/27/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	71	25 - 99	04/01/26 00:58	
Nitrobenzene-d5	72	22 - 104	04/01/26 00:58	
p-Terphenyl-d14	101	10 - 143	04/01/26 00:58	

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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26 10:55
Date Received: 03/25/26 09:38

Sample Name: IWS-MW1-032426
Lab Code: R2604024-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	10 U	10	1.3	1	04/01/26 01:22	3/27/26	
Acenaphthene	10 U	10	1.4	1	04/01/26 01:22	3/27/26	
Acenaphthylene	10 U	10	1.4	1	04/01/26 01:22	3/27/26	
Anthracene	10 U	10	1.3	1	04/01/26 01:22	3/27/26	
Benz(a)anthracene	10 U	10	1.6	1	04/01/26 01:22	3/27/26	
Benzo(a)pyrene	10 U	10	1.2	1	04/01/26 01:22	3/27/26	
Benzo(b)fluoranthene	10 U	10	1.2	1	04/01/26 01:22	3/27/26	
Benzo(g,h,i)perylene	10 U	10	2.1	1	04/01/26 01:22	3/27/26	
Benzo(k)fluoranthene	10 U	10	1.3	1	04/01/26 01:22	3/27/26	
Chrysene	10 U	10	1.2	1	04/01/26 01:22	3/27/26	
Dibenz(a,h)anthracene	10 U	10	1.1	1	04/01/26 01:22	3/27/26	
Fluoranthene	10 U	10	1.5	1	04/01/26 01:22	3/27/26	
Fluorene	10 U	10	1.3	1	04/01/26 01:22	3/27/26	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	04/01/26 01:22	3/27/26	
Naphthalene	10 U	10	1.2	1	04/01/26 01:22	3/27/26	
Phenanthrene	10 U	10	1.4	1	04/01/26 01:22	3/27/26	
Pyrene	10 U	10	1.5	1	04/01/26 01:22	3/27/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	67	25 - 99	04/01/26 01:22	
Nitrobenzene-d5	70	22 - 104	04/01/26 01:22	
p-Terphenyl-d14	113	10 - 143	04/01/26 01:22	



Semivolatile Organic Compounds by GC

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ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26 09:45
Date Received: 03/25/26 09:38

Sample Name: IWS-SD1-032426
Lab Code: R2604024-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.048 U	0.048	1	03/31/26 00:48	3/26/26	
beta-BHC	0.079	0.048	1	03/31/26 00:48	3/26/26	
delta-BHC	0.048 U	0.048	1	03/31/26 00:48	3/26/26	
gamma-BHC (Lindane)	0.048 U	0.048	1	03/31/26 00:48	3/26/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 111	03/31/26 00:48	
Tetrachloro-m-xylene	67	10 - 101	03/31/26 00:48	

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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26 10:30
Date Received: 03/25/26 09:38

Sample Name: IWS-MW2-032426
Lab Code: R2604024-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.050 U	0.050	1	03/31/26 01:05	3/26/26	
beta-BHC	0.22	0.050	1	03/31/26 01:05	3/26/26	
delta-BHC	0.050 U	0.050	1	03/31/26 01:05	3/26/26	
gamma-BHC (Lindane)	0.050 U	0.050	1	03/31/26 01:05	3/26/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	87	10 - 111	03/31/26 01:05	
Tetrachloro-m-xylene	64	10 - 101	03/31/26 01:05	

ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26 10:55
Date Received: 03/25/26 09:38

Sample Name: IWS-MW1-032426
Lab Code: R2604024-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.050 U	0.050	1	03/31/26 01:23	3/26/26	
beta-BHC	0.050 U	0.050	1	03/31/26 01:23	3/26/26	
delta-BHC	0.050 U	0.050	1	03/31/26 01:23	3/26/26	
gamma-BHC (Lindane)	0.050 U	0.050	1	03/31/26 01:23	3/26/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 111	03/31/26 01:23	
Tetrachloro-m-xylene	68	10 - 101	03/31/26 01:23	



Metals

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Form 1

Inorganic Analysis Data Sheet

Mercury by EPA 7470A (CV)

Workorder

R2604024

Client

Olin Corporation

Project

Industrial Welding

04/06/2026

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Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2604024

Mercury by EPA 7470A (CV)

IWS-SD1-032426	Collected	Received	Matrix	Prep Method
R2604024-001	03/24/26 0945	03/25/26 0938	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	03/30/26 09:35	R-CVAA-03_914916	473860

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2604024

Mercury by EPA 7470A (CV)

IWS-MW2-032426	Collected	Received	Matrix	Prep Method
R2604024-002	03/24/26 1030	03/25/26 0938	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	16.3		ug/L	0.4	1.0	5	03/30/26 10:02	R-CVAA-03_914916	473860

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2604024

Mercury by EPA 7470A (CV)

IWS-MW1-032426	Collected	Received	Matrix	Prep Method
R2604024-003	03/24/26 1055	03/25/26 0938	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	03/30/26 09:50	R-CVAA-03_914916	473860

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client Olin Corporation

Project Industrial Welding

Workorder

R2604024

Mercury by EPA 7470A (CV)

Method Blank	Matrix	Prep Method
R2604024-MB	Water	Method

MC	Analyte	Result	Q	Units	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
CV	Mercury, Total	0.20	U	ug/L	0.08	0.20	1	03/30/26 09:27	R-CVAA-03_914916	473860

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



QC Summary Forms

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Semivolatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Extraction Method: EPA 3510C

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		25 - 99	22 - 104	10 - 143
IWS-SD1-032426	R2604024-001	73	78	106
IWS-MW2-032426	R2604024-002	71	72	101
IWS-MW1-032426	R2604024-003	67	70	113
Method Blank	RQ2603921-01	75	77	122
Lab Control Sample	RQ2603921-02	81	74	117
Duplicate Lab Control Sample	RQ2603921-03	83	81	135
IWS-SD1-032426 MS	RQ2603921-04	48	43	81
IWS-SD1-032426 DMS	RQ2603921-05	74	65	108

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: 03/24/26
Date Received: 03/25/26
Date Analyzed: 04/1/26
Date Extracted: 03/27/26

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: IWS-SD1-032426
Lab Code: R2604024-001
Analysis Method: 8270E
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2603921-04			Duplicate Matrix Spike RQ2603921-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
2-Methylnaphthalene	10 U	25.8	80.0	32 *	42.9	80.0	54	34-102	50*	30
Acenaphthene	10 U	31.0	80.0	39 *	52.8	80.0	66	43-117	52*	30
Acenaphthylene	10 U	38.0	80.0	48	62.5	80.0	78	45-119	49*	30
Anthracene	10 U	45.1	80.0	56	64.3	80.0	80	45-127	35*	30
Benz(a)anthracene	10 U	55.4	80.0	69	69.8	80.0	87	46-126	23	30
Benzo(a)pyrene	10 U	60.5	80.0	76	84.6	80.0	106	44-114	33*	30
Benzo(b)fluoranthene	10 U	45.7	80.0	57	63.9	80.0	80	41-127	33*	30
Benzo(g,h,i)perylene	10 U	93.8	80.0	117	130	80.0	163 *	50-143	32*	30
Benzo(k)fluoranthene	10 U	53.3	80.0	67	72.9	80.0	91	46-139	31*	30
Chrysene	10 U	58.1	80.0	73	72.8	80.0	91	47-126	23	30
Dibenz(a,h)anthracene	10 U	52.1	80.0	65	71.9	80.0	90	43-136	32*	30
Fluoranthene	10 U	44.4	80.0	56	58.0	80.0	73	43-135	27	30
Fluorene	10 U	35.8	80.0	45	58.7	80.0	73	43-113	49*	30
Indeno(1,2,3-cd)pyrene	10 U	51.0	80.0	64	68.7	80.0	86	49-140	30	30
Naphthalene	10 U	27.6	80.0	35 *	45.3	80.0	57	37-108	48*	30
Phenanthrene	10 U	40.7	80.0	51	58.5	80.0	73	46-123	36*	30
Pyrene	10 U	48.2	80.0	60	69.9	80.0	87	44-129	37*	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2603921-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270E
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	10 U	10	1.3	1	03/31/26 19:26	3/27/26	
Acenaphthene	10 U	10	1.4	1	03/31/26 19:26	3/27/26	
Acenaphthylene	10 U	10	1.4	1	03/31/26 19:26	3/27/26	
Anthracene	10 U	10	1.3	1	03/31/26 19:26	3/27/26	
Benz(a)anthracene	10 U	10	1.6	1	03/31/26 19:26	3/27/26	
Benzo(a)pyrene	10 U	10	1.2	1	03/31/26 19:26	3/27/26	
Benzo(b)fluoranthene	10 U	10	1.2	1	03/31/26 19:26	3/27/26	
Benzo(g,h,i)perylene	10 U	10	2.1	1	03/31/26 19:26	3/27/26	
Benzo(k)fluoranthene	10 U	10	1.3	1	03/31/26 19:26	3/27/26	
Chrysene	10 U	10	1.2	1	03/31/26 19:26	3/27/26	
Dibenz(a,h)anthracene	10 U	10	1.1	1	03/31/26 19:26	3/27/26	
Fluoranthene	10 U	10	1.5	1	03/31/26 19:26	3/27/26	
Fluorene	10 U	10	1.3	1	03/31/26 19:26	3/27/26	
Indeno(1,2,3-cd)pyrene	10 U	10	1.8	1	03/31/26 19:26	3/27/26	
Naphthalene	10 U	10	1.2	1	03/31/26 19:26	3/27/26	
Phenanthrene	10 U	10	1.4	1	03/31/26 19:26	3/27/26	
Pyrene	10 U	10	1.5	1	03/31/26 19:26	3/27/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	75	25 - 99	03/31/26 19:26	
Nitrobenzene-d5	77	22 - 104	03/31/26 19:26	
p-Terphenyl-d14	122	10 - 143	03/31/26 19:26	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Analyzed: 03/31/26

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2603921-02					Duplicate Lab Control Sample RQ2603921-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	8270E	44.9	80.0	56	47.7	80.0	60	35-94	6	30
Acenaphthene	8270E	56.5	80.0	71	59.4	80.0	74	46-103	5	30
Acenaphthylene	8270E	65.8	80.0	82	70.2	80.0	88	51-114	6	30
Anthracene	8270E	67.8	80.0	85	73.5	80.0	92	61-115	8	30
Benz(a)anthracene	8270E	71.9	80.0	90	80.1	80.0	100	60-110	11	30
Benzo(a)pyrene	8270E	88.5	80.0	111	96.7	80.0	121	68-137	9	30
Benzo(b)fluoranthene	8270E	65.4	80.0	82	72.0	80.0	90	59-114	10	30
Benzo(g,h,i)perylene	8270E	147	80.0	184 *	150	80.0	187 *	60-123	2	30
Benzo(k)fluoranthene	8270E	74.1	80.0	93	82.8	80.0	104	62-122	11	30
Chrysene	8270E	74.1	80.0	93	83.7	80.0	105	64-116	12	30
Dibenz(a,h)anthracene	8270E	82.7	80.0	103	84.9	80.0	106	34-140	3	30
Fluoranthene	8270E	63.0	80.0	79	69.6	80.0	87	58-129	10	30
Fluorene	8270E	64.9	80.0	81	65.8	80.0	82	54-111	1	30
Indeno(1,2,3-cd)pyrene	8270E	79.8	80.0	100	81.9	80.0	102	54-119	3	30
Naphthalene	8270E	47.5	80.0	59	50.0	80.0	63	32-91	5	30
Phenanthrene	8270E	61.0	80.0	76	66.0	80.0	83	60-111	8	30
Pyrene	8270E	76.9	80.0	96	80.2	80.0	100	62-111	4	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 111	10 - 101
IWS-SD1-032426	R2604024-001	60	67
IWS-MW2-032426	R2604024-002	87	64
IWS-MW1-032426	R2604024-003	89	68
Method Blank	RQ2603848-01	79	68
Lab Control Sample	RQ2603848-02	71	58
Duplicate Lab Control Sample	RQ2603848-03	97	74

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2603848-01

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	0.050 U	0.050	1	03/30/26 23:56	3/26/26	
beta-BHC	0.050 U	0.050	1	03/30/26 23:56	3/26/26	
delta-BHC	0.050 U	0.050	1	03/30/26 23:56	3/26/26	
gamma-BHC (Lindane)	0.050 U	0.050	1	03/30/26 23:56	3/26/26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 111	03/30/26 23:56	
Tetrachloro-m-xylene	68	10 - 101	03/30/26 23:56	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Industrial Welding/5300013764
Sample Matrix: Water

Service Request: R2604024
Date Analyzed: 03/31/26

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2603848-02					RQ2603848-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
alpha-BHC	8081B	0.283	0.400	71	0.419	0.400	105	39-107	39*	30
beta-BHC	8081B	0.303	0.400	76	0.438	0.400	109	47-110	36*	30
delta-BHC	8081B	0.350	0.400	87	0.506	0.400	127 *	43-109	37*	30
gamma-BHC (Lindane)	8081B	0.290	0.400	73	0.430	0.400	107 *	41-105	39*	30



Metals

ALS Environmental—Rochester Laboratory

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Form 3

Blanks

Mercury by EPA 7470A (CV)

Workorder

R2604024

Client

Olin Corporation

Project

Industrial Welding

04/06/2026

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Form 3 - Blanks

Client Olin Corporation
Project Industrial Welding

Workorder
R2604024

Mercury by EPA 7470A (CV)

R-CVAA-03_914916			ICB		CCB		CCB		CCB		
Run Date			03/30/26		03/30/26		03/30/26		03/30/26		
Run Time			09:17		09:25		09:45		10:10		
Units			ppb		ppb		ppb		ppb		
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	
Mercury	0.08	0.20	0.20	U	0.20	U	0.20	U	0.20	U	

Q - Result Flag * - Result Above Limit

Form 5A

Matrix Spike Sample Recovery

Mercury by EPA 7470A (CV)

Workorder

R2604024

Client

Olin Corporation

Project

Industrial Welding

04/06/2026

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Form 5A - Matrix Spike Sample Recovery

Client Olin Corporation

Project Industrial Welding

Workorder

R2604024

Mercury by EPA 7470A (CV)

RunID

R-CVAA-03-914916

IWS-SD1-032426 (R2604024-001)					001MS			001DMS							
Sample Matrix		Water		Analysis Batch		914916		Run Date		03/30/26		Run Date		03/30/26	
Result Units		ug/L		Prep Batch		473860		Run Time		09:38		Run Time		09:40	
Prep Method		Method		Prep Date		03/27/26		Prep Amt		25 mL		Prep Amt		25 mL	
Analyte		%R Limits	DF	Sample Result	Spike Added	MS Result	%R	Q	DMS Result	%R	Q	RPD	Q	RPD Limit	
Mercury, Total		75 - 125	1	0.20U	1.00	1.22	122		1.16	116		5		20	

RPD Relative Percent Difference

%R %Recovery

Q %R or RPD Flag

NC Not Calculated

DO Diluted Out

MS\D Matrix Spike \Duplicate

DF Dilution Factor

***** %R or RPD Outside Limits

NS Not Spiked

Amt weight or volume



right solutions.
right partner.

Form 7

Laboratory Control Sample

Mercury by EPA 7470A (CV)

Workorder

R2604024

Client

Olin Corporation

Project

Industrial Welding

04/06/2026

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Form 7 - Laboratory Control Sample

Client Olin Corporation

Project Industrial Welding

Workorder

R2604024

Mercury by EPA 7470A (CV)

RunID

R-CVAA-03-914916

R-CVAA-03_914916			R2604024-LCS			
Spike Matrix	Water	Analysis Batch	914916	Run Date	03/30/26	
Result Units	ug/L	Prep Batch	473860	Run Time	09:30	
Prep Method	Method	Prep Date	03/27/2026	Prep Amt	25 mL	
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Mercury	80-120	1.00	1.10	110		