

Annual Report

Voluntary Cleanup Program ID: NW2009

Cleanup Site ID: 4175

Facility/Site ID: 4765174

Former Cherry Street Cleaners

2510 E Cherry St

Seattle, WA 98122

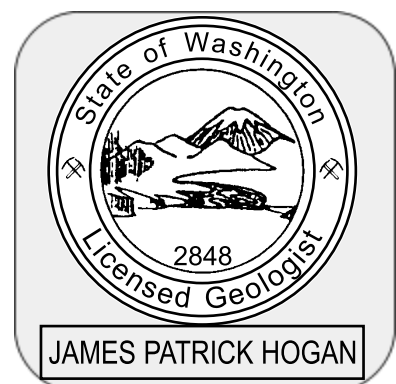
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Executive Summary

This *Annual Report* is a progress report prepared for the Washington Department of Ecology (“Ecology”) to describe actions completed thus far in accordance with the Ecology-approved *Cleanup Action Plan (Revision 1)* report, dated 7/31/20 (and approved on 12/8/20) (“CAPrev1”), for the former Cherry Street Cleaners located at 2510 E Cherry St in Seattle, Washington. The reporting period for this report is from 1/1/23 through 12/31/23.

As a part of the CAPrev1, an ozone injection treatment system (“OITS”) was installed in 2022 to address the following constituent of concern (“COC”) impacts that were not addressed by shallow vadose zone remediation activities previously completed in June of 2021:

- a. Soil gas located at depths deeper than 10 feet below ground surface (“bgs”) and shallower than the top of the water table
- b. Any lingering free-phase emulsified oil substrate (“EOS”) not recoverable by mechanical means
- c. Groundwater

Decreases in soil gas and source area groundwater COC concentrations have occurred since operation of the OITS began.

Based on the remedial actions completed to date and the remedial actions specified in the Ecology-approved CAPrev1, the following is scheduled for 2024:

1. Continue OITS operation
 2. Prepare this *Annual Report* documenting activities occurring during 2023
 3. Conduct quarterly performance groundwater monitoring
 4. Conduct EOS gauging and vacuum removal, if necessary
 5. Continue annual VI sampling and inspections at 2516/2518 E Cherry St
 6. Prepare a VIA report for 2516/2518 E Cherry St
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1 Site History

This *Annual Report* is a progress report prepared for the Washington Department of Ecology (“Ecology”) to describe actions completed thus far in accordance with the Ecology-approved *Cleanup Action Plan (Revision 1)* report, dated 7/31/20 (and approved on 12/8/20) (“CAPrev1”), for the former Cherry Street Cleaners (“Facility”) located at 2510 E Cherry St in Seattle, Washington (“Property”) (ELAM 2020d; Ecology 2020). The reporting period for this report is from 1/1/23 through 12/31/23.

1.1 Facility and Property

During Facility operations, Cherry Street Cleaners used two dry cleaning machines (“DCMs”) of unknown makes and model numbers. The first DCM was used from 1968 to 1998, and the second DCM was used from 1998 to 2007. Both DCMs used tetrachloroethene (“PCE”), which was released to the environment. Prior to 1968, the business operated as Accurate Cleaners, which used petroleum-based dry cleaning solvents instead of PCE.

The 4,000 square-foot commercial Property was previously developed with a single-story 2,440 square-foot building. The building was razed in July 2013 as a part of interim remedial measures. During the demolition, all utilities were disconnected and the pavement was removed. A 2,500-gallon heating oil tank remained at the Property but was later removed in June 2021 as a part of CAPrev1. Currently, the Property consists of a grass-covered lot surrounded by a chain-link fence. The Property is bound by the Islamic School of Seattle to the west and north, an alleyway to the east, and E Cherry St to the south. The locations of former features of the Facility and current features of the Property are shown on Figure 1.

1.2 Constituents of Concern

Due to the historical use of PCE, the constituents of concern (“COCs”) are PCE and its daughter products trichloroethene (“TCE”), cis-1,2-dichloroethene (“c-DCE”), trans-1,2-dichloroethene (“t-DCE”) and vinyl chloride (“VC”). Several activities associated with remedial investigations (“RI”) and cleanup actions of the COC impacts to soil, groundwater and soil gas have ensued since 2007. Details of the prior work are



publicly available through Ecology's website and webpages dedicated to Cherry Street Cleaners.¹

1.3 Regional Geology and Hydrogeology

The relief in the vicinity of the site ranges between 280 and 285 feet above mean sea level ("amsl"). Based on a review of *The Geologic Map of Seattle* (USGS 2005), soils in the region of the site consists of Quaternary pre-Olympian landslide glacial deposits consisting of fine-grained silts and clays with interbedded sands, underlain by very dense fine-grained till deposits. The till generally ranges from gravelly, sandy silt to silty sand with varied quantities of clay and scattered cobbles and boulders (Galster and Laprade 1991).

Specific to the site, noncohesive sandy silt is generally encountered from the ground surface to approximately 5 to 10 feet below ground surface ("bgs") followed by discontinuous interbedded silt, silty sand and sandy silt lenses within a non-cohesive sand unit with some gravel. This soil type exists to the total depth drilled of 60 feet bgs.

Groundwater exists under unconfined conditions at depths ranging from 20 to 30 feet bgs. Historically, the shape of the water table surface reflected an approximate 100-feet wide "valley" shape with a north-south trending axis located between the Facility and 26th Ave (ELAM 2019). This valley shape causes water from the east to flow west and water from the west to flow east. The Facility itself is located on the west side of this valley shape and so groundwater generally flows eastward, although the surface is generally flat and has been noted to flow in the opposite direction as well.

As described in a prior *Annual Report*, groundwater also flows east from the Facility in the deeper part of the aquifer, but the deeper portion does not terminate to the east like the shallow portion does (ELAM 2019). Consequently, there is no groundwater flow termination point in this deeper portion (ELAM 2019). Lake Washington is the nearest surface water body to the east of the Facility, located approximately 1 mile east.

¹ Ecology, 2023, *Cherry Street Cleaners*, <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=4175> (URL last verified 2/6/24).



1.4 Remedial Investigation History

Site characterization began when PCE was discovered in soil and groundwater during an initial Facility characterization conducted by Adapt Engineering, Inc. (“Adapt”) in June 2007. The release was subsequently reported to Ecology and entered into the Voluntary Cleanup Program (“VCP”). Since then, several phases of investigation have been conducted to delineate the extent of chlorinated volatile organic compounds (“cVOCs”) in soil, groundwater and air. These prior reported investigations are summarized in the table below.

Year	Investigation Activity	Report Reference
2007	☐ Advanced soil boring B-1	ECC 2013
2008	☐ Advanced soil borings FB-1 through FB-10 ☐ Installed monitoring wells MW-1 through MW-10 and MW-10D	ECC 2013
2010	☐ Installed monitoring well MW-11 ☐ Installed additional SVE pilot study wells SVE-2 and VP-1 through VP-3	ECC 2013
2012	☐ Advanced soil borings SB-1 through SB-11 ☐ Installed monitoring wells MW-12 through MW-17 ☐ Conducted vapor intrusion assessments (“VIAs”) at the following addresses: ☐ 2503 E Cherry St ☐ 2509 E Cherry St ☐ 2510 E Cherry St ☐ 2511 E Cherry St ☐ 2515 E Cherry St ☐ 2516 E Cherry St ☐ 2517 E Cherry St ☐ 2518 E Cherry St ☐ 720 25th Ave ☐ 711A 25th Ave	ECC 2013
2013	☐ Advanced soil boring SB-21 ☐ Installed monitoring wells MW-15D, MW-17D, MW-18, MW-18D, MW-19, MW-19D, and MW-20D ☐ Conducted VIA at 720 25th Ave	ECC 2014
2014	☐ Advanced soil borings SB-12 through SB-20 and SB-22 through SB-37 ☐ Installed monitoring wells MW-21D, MW-22D, and MW-23	ECC 2014
2017	☐ Conducted VIAs at the following addresses: ☐ 720 25th Ave ☐ 2516 E Cherry St ☐ 2518 E Cherry St	ELAM 2017a ELAM 2017b
2018	☐ Conducted VIAs at the following addresses: ☐ 720 25th Ave ☐ 2516 E Cherry St ☐ 2518 E Cherry St	ELAM 2018a ELAM 2018b



Year	Investigation Activity	Report Reference
2020	☐ Conducted VIAs at the following addresses: ☐ 720 25th Ave ☐ 2516 E Cherry St ☐ 2518 E Cherry St	ELAM 2020a
		ELAM 2020b
	☐ Advance soil borings for collection of soil to be used in a bench test of combining <i>in-situ</i> chemical oxidation/ <i>in-situ</i> stabilization ("ISCO/ISS") remedy	ELAM 2020c
2021	☐ Conducted VIAs at the following addresses: ☐ 2516 E Cherry St ☐ 2518 E Cherry St	ELAM 2022b
	☐ Advanced confirmatory soil borings CB-1 through CB-12 (volatile organic compound ("VOC") analysis)	ELAM 2022c
2022	☐ Advanced confirmatory soil borings CB-1 through CB-12 (TCLP VOC analysis)	ELAM 2022c
	☐ Conducted VIAs at the following addresses: ☐ 720 25th Ave	ELAM 2022a
2023	☐ Conducted VIAs at the following addresses: ☐ 720 25th Ave ☐ 2516 E Cherry St	ELAM 2023a
		ELAM 2023b

Ecology recognized that the RI was complete when they approved the CAPrev1 on 12/8/20 (ELAM 2020d, Ecology 2020). Accordingly, the site was delineated and is defined to encompass all of the areas of investigation identified above within which the COCs were identified ("Site").

1.5 Remediation History

Several remediation measures have been conducted at the site both before and after Ecology's approval of the CAPrev1. Remediation measures completed before the CAPrev1 approval are identified below as "Interim Remedial Measures." The remediation activities that were outlined in the CAPrev1 are identified as "CAP Remediation Activities."

1.5.1 Site Interim Remedial Measures

Interim remedial measures included pilot testing to evaluate the efficacy of air sparge ("AS") and soil vapor extraction ("SVE") technologies, injection of emulsified oil substrate ("EOS") to augment PCE bioremediation, and vacuum truck events to remove



free-phase EOS from monitoring wells and injection wells.² These interim remedial measures are summarized in the table below.

Year	Interim Remedial Measures	Report Reference
2008	❑ Completed AS/SVE pilot study testing using wells SVE-1 and MW-1D ❑ An AS/SVE system was not installed	ECC 2013
2010	❑ Completed an additional pilot study for SVE using SVE-2 and VP-1 through VP-3 ❑ Injected a total of 3,465 gallons of EOS into wells IW-1 through IW-28, MW-1, MW-2, MW-3, and MW-7 ❑ 2,310 gallons of EOS were injected into the wells within the Facility boundary ❑ 1,155 gallons of EOS were injected into the wells outside the Facility boundary	ECC 2013
2012	❑ Completed groundwater monitoring for four consecutive quarters in 2012 and 2013 as part of the EOS performance monitoring	ECC 2013
2013	❑ Demolished site building ❑ Used vacuum truck to remove 75 gallons of EOS from subsurface in Q4	ECC 2014
2014	❑ Used vacuum truck to remove 75 gallons of EOS in Q2 and 120 gallons of EOS in Q3	ECC 2014
2016	❑ Used vacuum truck to remove 25 gallons of EOS in Q4	ELAM 2019
2017	❑ Used vacuum truck in Q1, Q2 and Q3 to remove a total of 80 gallons of EOS during the three events	ELAM 2019
2018	❑ Used vacuum truck to remove 6 gallons of EOS in Q1	ELAM 2019
2020	❑ Used vacuum truck to remove 10 gallons of EOS in Q1	ELAM 2020c
2021	❑ Used vacuum truck in Q2 and Q4 to remove a total of 12 gallons of EOS during the two events	ELAM 2022c

1.5.2 CAP Remediation Activities

In an effort to define a permanent remedy, both a Feasibility Study (“FS”) and a Cleanup Action Plan (“CAP”) were prepared for Ecology’s review. After revision, the *Feasibility Study (Revision 1)* (“FSrev1”) and CAPrev1 were submitted to Ecology on 7/31/20 (ELAM 2020c, d). Ecology approved the FSrev1 and CAPrev1 in its *Opinion on*

² PCE was detected in samples of the removed EOS at concentrations of up to 1,380,000 micrograms per kilogram (“µg/kg”).



Proposed Cleanup letter, dated 12/8/20 (Ecology 2020). The CAP Remediation Activities and completion progress is summarized in the following table.

Year	CAP Remediation Activity	Report Reference
Jun - Jul 2021	❑ Removal of a 2,500-gallon heating oil tank ❑ Grading and offsite disposal of approximately 296 cubic yards (429 tons) of soil from the surface of the property to a maximum depth of 2 feet bgs ❑ In-situ chemical oxidation ("ISCO") via soil mixing approximately 985 cubic yards of soil with a Klozur SP® sodium persulfate reagent solution and a Portland cement binding agent between 2 and 10 feet bgs ❑ Restoration of the original surface grade with clean backfill and hydroseeded topsoil	ELAM 2022c
2022	❑ Installation of an Ozone Injection Treatment System ("OITS") in the fall - operation began in November 2022	ELAM 2023c
2023	❑ Continued OITS operation	This Report



2 Ozone Injection Treatment System

The OITS was installed in the fall of 2022 and began full operation on 11/10/22. The primary aboveground components are housed in a trailer and include an air compressor, oxygen concentrator and ozone generator. These components deliver ozone to the subsurface through a network of 12 injection wells, which are nested in 6 pairs with each pair including one shallow well injecting into the vadose zone soil and one deep well injecting into the saturated soil. Detailed OITS construction and installation specifications are documented in the 2022 *Annual Report* (ELAM 2023c). The locations of the injection wells, conveyance lines and remediation system trailer are shown on Figure 2.

2.1 Overview

The OITS controls the flow of ozone to the injection wells through a system of timers that open and close solenoid valves for each individual injection well at set time intervals. During 2023, the cycle was set so that ozone was delivered to each injection well, one well at a time for a 30-minute delivery period. Between each 30-minute delivery period, a 2-minute overlap period was programmed between the existing and next sequential injection well to decrease stress on the system components. The full timer sequence is summarized in the table on the following page.



Timer	Time (mins)	INJ1s	INJ2s	INJ3s	INJ4s	INJ5s	INJ6s	INJ1d	INJ2d	INJ3d	INJ4d	INJ5d	INJ6d
		Valve A	Valve B	Valve C	Valve D	Valve E	Valve F	Valve G	Valve H	Valve I	Valve J	Valve K	Valve L
1	30	Open											
2	2	Open	Open										
3	30		Open										
4	2		Open	Open									
5	30			Open									
6	2			Open	Open								
7	30				Open								
8	2				Open	Open							
9	30					Open							
10	2					Open	Open						
11	30						Open						
12	2						Open	Open					
13	30							Open					
14	2							Open	Open				
15	30								Open				
16	2								Open	Open			
17	30									Open			
18	2									Open	Open		
19	30										Open		
20	2										Open	Open	
21	30											Open	
22	2											Open	Open
23	30												Open
24	2	Open											Open

2.2 Operation and Maintenance

Key OITS operating parameters include runtime, air pressure, oxygen pressure, air purity, amperage draw from the ozone generator, ozone concentration and rate of ozone production. These parameters are continuously monitored by the programmable logic controller ("PLC"), which records relevant parameter data, sends out a screenshot of system readings near the end of each day, and alerts the system operator of alarm conditions. Additionally, users can log on to the PLC remotely to check the operating parameters. Over the course of 2023, these parameters generally remained within their



designed operating ranges. The 2023 average values for these parameters are summarized below.

- ☐ The OITS was fully operational for 274 of 365 days in 2023 (~75%)
 - ☐ The OITS was down between 1/1/23 and 3/13/23 due to malfunctions associated with the oxygen purifier, air compressor and electronic components located within the system control panel
 - ☐ The OITS was down between 4/24/23 and 4/30/23 due to malfunctions associated with a check valve on the air compressor check
 - ☐ The OITS was down between 4/24/23 and 4/30/23 due to malfunctions associated with a check valve on the air compressor check
 - ☐ The OITS was down between 5/10/23 to 5/15/23 due to an air leak in the oxygen purifier
 - ☐ The OITS was down between 5/31/23 to 6/4/23 due to an issue with the air dryer condensate drain on the air compressor
 - ☐ The OITS was down on 12/13/23 due to an electrical surge in the air compressor
- ☐ The average air pressure in the air compressor was approximately 110 pounds per square inch ("PSI") during 2023, which is above the low pressure alarm setpoint of 70 PSI
- ☐ The average oxygen pressure in the oxygen concentrator storage tank was approximately 64 PSI during 2023, which is above the low pressure alarm setpoint of 45 PSI
- ☐ The average oxygen purity was approximately 90% during 2023, which is above the low purity alarm setpoint of 70%
- ☐ The average current draw by the ozone generator was approximately 8.5 amps when the ozone generator was operational, which is above the low alarm setpoint of 2 amps and below the high alarm setpoint of 22 amps
- ☐ The average ozone concentration was approximately 101.8 grams per cubic meter ("g/m³") when the ozone generator was operational
- ☐ The average rate of ozone production was approximately 4.6 pounds per day ("lbs/day") when the ozone generator was operational, which is within the designed 4.5 to 5.5 lbs/day
- ☐ Approximately 1,259 pounds of ozone were injected into the subsurface during 2023



Screenshots of system readings recorded near the end of each day are included in Appendix A.1 and the data are summarized in Table 1. A chart depicting the screenshot data graphically is included in Appendix A.2. A chart depicting the ozone production rate and cumulative ozone mass produced since operation began through 12/31/23 is included in Appendix A.3.



3 Performance Monitoring

The CAPrev1 included performance monitoring and sampling plans for soil, groundwater, free-phase EOS and vapor intrusion (ELAM 2020d). The confirmatory soil sampling was completed in Q4 2021 and Q1 2022 and documented in the 4/5/22 *Annual Report* (ELAM 2022c). Groundwater, free-phase EOS and vapor intrusion (“VI”) monitoring remain ongoing and are reported herein.³

3.1 Quarterly Groundwater Monitoring

The CAPrev1 specifies a plan for quarterly groundwater monitoring after implementation of the remedy while the OITS is in operation and for four additional quarters after the OITS is shut down. Since the OITS began operation in Q4 2022, quarterly performance groundwater monitoring began in the following quarter, Q1 2023, and has continued through Q4 2023. The plan includes gauging and sampling 14 monitoring wells for analysis of volatile organic compounds. The 14 wells identified for performance monitoring are MW-1, MW-2R, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-9, MW-11, MW-13, MW-15, MW-15D, MW-23 and MW-101. The locations of these monitoring wells are shown on Figure 1.

3.1.2 Procedures

During each of the four quarterly groundwater monitoring events conducted in 2023, an ELAM staff scientist accessed, gauged and sampled the 14 monitoring wells in the plan in accordance with the procedures specified in the QAPP (ELAM 2020d, 2023b). Field documentation is provided on Low-Flow Test Reports for each well in Appendices B.1 through B.4.

³ VI monitoring in 2023 was conducted at 720 E 25th Ave and 2516 E Cherry St in March. These VI sampling events are summarized in this section and are also documented in separate reports (ELAM 2023d, 2023e).



3.1.3 Results

3.1.3.1 Groundwater Flow

Groundwater contours and flow directions were interpreted for each sampling event using data from the monitoring wells that are screened across the top of the water table at approximately 25 feet bgs. The groundwater elevation in each monitoring well was calculated by subtracting the depth-to-water measurement from the top-of-casing elevations. The groundwater elevations ranged from 252.00 ft amsl to 252.95 ft amsl during Q1 2023, 252.34 ft above amsl to 253.30 ft amsl during Q2 2023, 251.02 ft above amsl to 251.67 ft amsl during Q3 2023 and 250.57 ft above amsl to 251.10 ft amsl during Q4 2023.

An evaluation of the historical groundwater elevation measurements revealed that the groundwater elevations measured at MW-15 in Q1 2023 and at MW-2R in Q2 2023 were anomalous. Elevations at these monitoring wells were not included in the groundwater flow interpretations. The anomalous data are described below.

Q1 2023: Historical groundwater elevations at MW-15 have typically been 0.05 to 0.15 ft less than the elevations measured at nearby monitoring wells MW-9 and MW-23. During Q1 2023, the elevation measured at MW-15 was 0.95 ft greater than MW-9 and 0.86 ft greater than MW-23.

Q2 2023: Historical groundwater elevations at MW-2R have typically been 0.05 to 0.50 ft less than the elevations measured at nearby monitoring wells MW-3R and MW-13. During Q2 2023, the elevation measured at MW-2R was 0.46 ft greater than MW-3R and also 0.46 ft greater than MW-13.

Groundwater flow interpretations in the shallow zone for each groundwater monitoring event indicate a flow from the former Cherry Cleaners toward the east. Groundwater elevation measurements and low-flow stabilization parameters from this monitoring period are summarized in Table 2 and illustrated on Figures 3a through 3d. Historical gauging data are presented in Appendix C.1.

3.1.3.2 Groundwater Analytical Data

Each sample was analyzed for VOCs in accordance with USEPA SW-846 Method 8260. There were cVOCs detected in 13 to 14 samples during each of the four sampling



events. The results are summarized in Table 3 and shown on Figure 4. Historical groundwater analytical results are provided in Appendix C.2. The laboratory analytical reports for each quarterly groundwater monitoring event are presented in Appendix D.

3.1.3.3 QA/QC Analytical Data

Results from the QA/QC data, including trip blanks and field duplicates, were evaluated to assess the quality of the groundwater analytical data. VOCs were not detected in the trip blanks analyzed during the reporting period. Therefore, cross-contamination during sample storage and transit is not suspected. To evaluate the precision of the data set, the relative percent difference (“RPD”)⁴ was calculated for detected cVOCs as summarized in the table below.

Sampling Event	Duplicate Location	Detected cVOCs	RPD Range (%)
Q1 2023	MW-1	PCE	5.2
		TCE	6.4
		cDCE	2.1
Q2 2023	MW-1 MW-2R	PCE	3.3
		TCE	0.8
		cDCE	5.1
Q3 2023	MW-1	PCE	1.8
		TCE	2.7
		cDCE	1.0
Q4 2023	MW-1	PCE	3.0
		TCE	13.2
		cDCE	4.5

The calculated RPD values are within the acceptable range of less than 20% (Ecology, 2004) during each groundwater monitoring event during this reporting period.

⁴ The RPD is calculated by dividing the absolute value of the difference between the two concentrations by the average of the two concentrations.



3.2 EOS Monitoring & Removal

Beginning in 2013, EOS that was previously injected into the groundwater as an interim remedy was detected floating on the top of the water table in injection wells and monitoring wells at thicknesses of greater than 3 feet. Laboratory analysis of an EOS sample collected from monitoring well MW-3 in 2013 revealed that the PCE concentration in the EOS was 1,380,000 micrograms per kilogram (“µg/kg”). With the possibility of the EOS biodegrading and re-releasing the sequestered PCE back into the groundwater, Cherry Street Cleaners began monitoring the EOS thicknesses and using a vacuum truck to skim EOS from the groundwater surface in monitoring wells and injection wells in 2014.

3.2.1 Procedures

During 2023, EOS monitoring events were conducted on 6/21/23, 9/27/23 and 12/3/23. Monitoring wells (MW-1, MW-3 and MW-7) and injection wells (IW-02 through IW-27) were inspected for the presence of EOS. Detailed EOS monitoring procedures are provided in Appendix E.

3.2.2 Results

No EOS was observed during the reporting period. In fact, EOS has not been detected in any monitoring or injection wells since Q2 2021. The measured EOS thicknesses since 2013 are summarized in Table 4.

3.3 Vapor Intrusion Monitoring

During 2023, The ELAM Group conducted vapor intrusion assessments (“VIAs”) at the Islamic School of Seattle (“ISS”) building located at 720 25th Ave, the Twilight Exit bar building located at 2516 E Cherry St and the building located at 2518 E Cherry St. These VIAs were documented in separate reports submitted to Ecology in December 2023 (ELAM 2023d, ELAM2023e).



3.3.1 720 25th Ave

The VIA at the ISS was conducted in March 2023 and included inventorying chemical products in the building, removing paint and other building maintenance products from the building at least 48 hours prior to sampling and collecting sub-slab soil gas (“SGss”) and indoor air (“IA”) samples from the southern portion of the building. Results from the analysis of VOCs are compared to MTCA Method B Residential Cleanup Levels.

3.3.1.1 Procedures

Samples were collected from two SGss and seven IA sample locations over an 8-hr period in accordance with procedures listed in the Quality Assurance Project Plan - Revision 1 (“QAPPrev1”) (ELAM 2023a). The samples were submitted to Eurofins laboratory for analysis of VOCs in accordance with USEPA Method Toxic Organic 15 (“TO-15”).

3.3.1.2 Results

No COCs related to Cherry Cleaners were detected in the SGss or IA samples at concentrations exceeding the MTCA Method B Cleanup Levels. Analytical results are summarized on Table 5 and shown relative to the sample locations on Figure 5.

3.3.2 2516 & 2518 E Cherry St

Annual inspections of 2516 and 2518 E Cherry St are conducted to confirm continued Commercial land use and determine if additional VIA sampling is necessary. If land use changes to residential, additional VIA sampling may be required at both properties. If land use remains commercial, winter VIA sampling is conducted at 2516 E Cherry St, but no additional sampling is necessary at 2518 E Cherry St. During the inspections in 2023, the land use for both properties remained commercial. Consequently, a winter VIA was conducted for the Twilight Exit bar at 2516 E Cherry St.

The VIA at Twilight Exit was conducted in March 2023 and included documenting building use, inventorying chemical products in the building, removing paint and other building maintenance products from the building at least 48 hours prior to sampling and



collecting SGss and IA samples from the building for comparison to MTCA Method C Commercial Cleanup Levels.

3.3.2.1 Procedures

Within the Twilight Exit building, samples were collected from two SGss and two IA sample locations over an 8-hr period in accordance with procedures listed in the QAPPrev1 (ELAM 2023a) on 3/11/23. The samples were submitted to Eurofins laboratory for analysis of VOCs in accordance with USEPA TO-15.

3.3.2.2 Results

Analytical results from the 3/11/23 VIA indicate that no COCs related to Cherry Cleaners were detected in the IA samples at concentrations exceeding the MTCA Method C Cleanup Levels. The PCE detected in the SGss sample from SS-1 is the only MTCA Method C Cleanup Level exceedance. Analytical results are summarized on Table 6 and shown relative to the sample locations on Figure 6. Historical VI sampling analytical results for all properties are shown in Appendix C.3.



4 Remedy Progress Analysis

The CAPrev1 remedies included a HOT removal, shallow soil excavation to a depth of 2 ft bgs and mixing a sodium persulfate remediation product and portland cement bonding agent with the soil from 2 to 10 ft bgs in June 2021; two EOS removal events in 2021; and installation and operation of an OITS beginning in November 2022. The progress of these remedies, as measured by performance groundwater monitoring and VIA events, is presented herein.

4.1 Groundwater Analysis

Groundwater remediation progress is assessed through a comparison to MTCA Cleanup Levels and an evaluation of the change in COC concentrations.

4.1.1 Comparison to MTCA Cleanup Levels

Results from the 2023 quarterly groundwater sampling events are compared to the MTCA Cleanup Levels in Table 3 and shown relative to the sample locations on Figure 4. A review of Table 3 shows the following:

- ❑ 11 monitoring wells (MW-1, MW-2, MW-3R, MW-5, MW-6, MW-11, MW-13, MW-15, MW015d, MW-23 and MW-101): at least one COC exceeded the MTCA Level A Cleanup Level in each of the 4 quarterly sampling events during 2023
- ❑ 1 monitoring well (MW-7): at least one COC exceeded the MTCA Level A Cleanup Level in 3 of the 4 quarterly sampling events during 2023
- ❑ 2 monitoring wells (MW-4 and MW-9): no COCs exceeded the MTCA Level A Cleanup Level in any of the 4 quarterly sampling events during 2023

Per the CAPrev1, monitoring wells in which COCs have not been detected at concentrations above the MTCA Level A Cleanup Levels for four consecutive quarters after remedy implementation will be removed from the monitoring plan. Based on this criteria, monitoring well MW-9 will be removed from the monitoring plan. Monitoring well MW-4 also fits this criteria. However, it will remain in the monitoring plan for at least one more quarter because the PCE concentration in Q1 2023 was equal to the MTCA Level A Cleanup Level. MW-4 will be removed from the monitoring plan if no COC



concentrations from the Q1 2024 sampling event exceed the MTCA Level A Cleanup Levels.

4.1.2 Evaluation of Change in COC Concentrations

To evaluate groundwater remediation progress, the cVOC concentrations from the Q4 2023 sampling event were compared to the cVOC concentrations from the Q4 2021 baseline sampling event.⁵ The Q4 2021 and Q4 2023 COC concentrations in micrograms per liter (“µg/L”) and associated percentage change (“%Δ”) from baseline are summarized in the table below.

Well	PCE			TCE			c-DCE			VC		
	Q4 21	Q4 23	% Δ	Q4 21	Q4 23	% Δ	Q4 21	Q4 23	% Δ	Q4 21	Q4 23	% Δ
MW-1	512	267	-48%	73.4	15.3	-79%	1,960	542	-72%	6.5	<10.0	-23%
MW-2r	243	140	-42%	15.0	7.1	-53%	2.9	4.1	+41%	<0.20	<2.0	--
MW-3r	191	116	-39%	2.5	1.5	-40%	<1.0	<1.0	--	<0.20	<1.0	--
MW-4	2.8	4.2	+50%	<0.40	<1.0	--	<1.0	<1.0	--	<0.20	<1.0	--
MW-5	24.0	62.0	+158%	0.59	1.1	+86%	<1.0	<1.0	--	<0.20	<1.0	--
MW-6	49.0	98.5	+101%	<0.40	<1.0	--	<1.0	<1.0	--	<0.20	<1.0	--
MW-7	296	2.3	-99%	14.8	<2.0	-93%	337	195	-42%	1.8	<2.0	-44%
MW-9	<1.0	1.2	--	<0.40	<1.0	--	<1.0	<1.0	--	<0.20	<1.0	--
MW-11	354	407	+15%	26.8	18.7	-30%	33.5	62	+85%	<0.40	<5.0	--
MW-13	26.7	35.2	+32%	<0.40	<1.0	--	<1.0	<1.0	--	<0.20	<1.0	--
MW-15	499	704	+41%	10.6	14.7	+39%	<1.0	<10.0	--	<0.20	<2.0	--
MW-15d	15.3	14.0	-9%	0.70	1.90	+171%	<1.0	<1.0	--	<0.20	<2.0	--
MW-23	197	279	+42%	11.4	17.1	+50%	29.7	57.5	+94%	<0.20	<2.0	--
MW-101	144	110	-24%	7.5	5.8	-23%	20.4	13.3	-35%	<0.20	<2.0	--

Notes:

1. Percentages in blue font represent concentration decreases, whereas red font indicates increases. When the result is less than the laboratory reporting limit, ½ of the reporting limit is used to calculate the percentage change.
2. “--” indicates the compound was not detected during either sampling event.

The percent changes shown in the table demonstrate decreasing COC concentrations in wells within and immediately down-gradient of the OITS treatment area (MW-1, MW-2r, MW-3r, MW-7 and MW-101), which are areas that had some of the highest

⁵ The Q4 2021 baseline sampling event was conducted after implementing the shallow soil excavation and soil mixing remedies in June 2021 but before beginning operation of the OITS in November 2022.



concentrations prior to remedy implementation. At upgradient monitoring well MW-5 and sidegradient monitoring well MW-6, PCE concentrations have shown an increase of greater than 100%. However, both of these wells are located outside of the OITS treatment area and had baseline PCE concentrations approximately 10 times less than the baseline concentrations in the treatment area.

Overall, the groundwater data demonstrate that the OITS has decreased the cVOC concentrations within and immediately downgradient of the treatment area. Changes to the OITS operating schedule that are intended to optimize the effectiveness of groundwater treatment are discussed in Section 5.2.

4.2 EOS Removal Analysis

Since implementing the removal program in 2014, approximately 907 gallons of liquid was removed, of which approximately 403 gallons was EOS. As shown in Table 4, the EOS thicknesses and EOS removal quantities have steadily decreased over time. No measurable EOS has been detected in the monitoring wells or injection wells since Q2 2021, signifying that the mechanical removal of the EOS has been successful.

4.3 Vapor Intrusion

4.3.1 720 25th Ave

Prior to implementing remedy at Cherry cleaners, PCE was detected in the soil gas beneath the southern portion of the ISS building at concentrations exceeding the MTCA Method B Cleanup Levels. Since implementing remedy at Cherry Cleaners, VIAs have been conducted at the ISS during two winter worst-case scenario sampling events: January 2022 and March 2023. No COCs related to Cherry Cleaners were detected in the SGss or IA samples at concentrations exceeding the MTCA Method B Cleanup Levels during either of these sampling events. Consequently, The ELAM Group concluded that the remedies contributed to a permanent reduction in PCE in soil gas. Further, since the VI exposure pathway remained below Method B IACls for the COCs associated with Cherry Street Cleaners, The ELAM Group recommended discontinuing VIAs at the ISS. Ecology reviewed the data and, via email on 12/21/23, concurred that VIAs at ISS may be discontinued (Ecology 2023).



4.3.2 2516 E Cherry St

During the March 2023 VIA sampling event, none of the COCs associated with Cherry Street Cleaners were detected in the IA samples or SGss samples at concentrations exceeding Ecology's Method C Cleanup Levels. Historically, PCE has been detected in SGss samples at concentrations above the Method C SGSLs. The PCE concentration detected at sample location SS-1 in March 2023 was considerably lower than the baseline concentration before remedy, which was collected in October of 2021 [1,300 micrograms per cubic meter ("ug/m³") vs. 29,200 ug/m³]. The PCE concentration detected at sample location SS-2 was also considerably lower in March 2023 than its October 2021 baseline concentration (20 ug/m³ vs. 6,320 ug/m³).

As presented in the *Vapor Intrusion Assessment Report - 2516 E Cherry St* (ELAM 2023), the historical VIA data demonstrate the following:

1. Demolition of the former Cherry Street Cleaners building is largely responsible for the release of entrapped soil gas
2. The remedies specified in CAPrev1, including the completed soil excavation of the upper 2 feet of soil and ISCO of the vadose zone soil between 2 and 10 feet bgs as well as the ongoing ISCO with ozone in groundwater and the lower part of the vadose zone, are reducing PCE mass in the subsurface
3. The March 2023 VI sample collection event represents the first post-remedy event where the PCE concentrations in the samples collected from both SS-1 and SS-2 did not exceed the Method C SGSL, and suggests that the above-referenced remedies contributed to a permanent reduction of PCE in soil gas



5 CAP Implementation Planning

All of the CAP Remediation Activities have been implemented. Items that remain for completion are continued operation of the OITS and continued monitoring. This section of the report presents modifications that will be implemented in 2024 to optimize OITS effectiveness and provides the updated CAP implementation schedule.

5.1 OITS Operation Modifications

During 2023, the ozone injection cycle was set so that ozone was delivered to each injection well, one well at a time for a 30-minute delivery period. This distributed 50% of the ozone to the saturated zone and 50% of the ozone to the vadose zone. As evidenced by the March 2023 VIA data, operating in this manner has resulted in a 95% or more reduction in PCE soil gas concentrations at 720 25th Ave and 2516 E Cherry St. PCE concentrations in groundwater have also shown a reduction, but not to the same magnitude as the soil gas reductions. In an effort to increase the groundwater COC reductions in 2024, The ELAM Group will adjust the ozone injection cycle such that approximately 90% is injected into the saturated zone and 10% is injected into the vadose zone. The injection timing sequence will be modified as shown in the following table.

Timer	Time (mins)	INJ1s	INJ2s	INJ3s	INJ4s	INJ5s	INJ6s	INJ1d	INJ2d	INJ3d	INJ4d	INJ5d	INJ6d
		Valve A	Valve B	Valve C	Valve D	Valve E	Valve F	Valve G	Valve H	Valve I	Valve J	Valve K	Valve L
1	3	Open											
2	2	Open	Open										
3	3		Open										
4	2		Open	Open									
5	3			Open									
6	2			Open	Open								
7	3				Open								
8	2				Open	Open							
9	3					Open							
10	2					Open	Open						
11	3						Open						
12	2						Open	Open					
13	30							Open					



Timer	Time (mins)	INJ1s	INJ2s	INJ3s	INJ4s	INJ5s	INJ6s	INJ1d	INJ2d	INJ3d	INJ4d	INJ5d	INJ6d
		Valve A	Valve B	Valve C	Valve D	Valve E	Valve F	Valve G	Valve H	Valve I	Valve J	Valve K	Valve L
14	2							Open	Open				
15	30								Open				
16	2								Open	Open			
17	30									Open			
18	2									Open	Open		
19	30										Open		
20	2										Open	Open	
21	30											Open	
22	2											Open	Open
23	30												Open
24	2	Open											Open

5.2 CAP Implementation Schedule

The following checklist was presented in the CAPrev1 to outline the schedule of activities. This checklist is updated to demonstrate completion progress through 2023 and to show the planned activities that remain for completion from 2024 through 2026. At this time, no adjustments to the schedule or amendments to the scope of remedy are recommended.



Quarter & Year	CAPrev1 Scheduled Activities
Q2 2021	☒ Obtain SDCI Grading Permit 6388215-GR ☒ Obtain SDOT Street Use Permit ☒ Request CID from Ecology ☒ Obtain CID from Ecology ☒ Install Project Information Sign within the Perimeter Fence ☒ Conduct EOS Gauging and Removal Event ☒ Provide Contacts on the Construction Notification List with a Remediation Construction Project Briefing (upon receipt of the required approvals/permits) ☒ Coordinate Tree Protection Requirements with Urban Forestry (at least 3 weeks prior to remediation construction activities) ☒ Verify/Update Construction Notification List and Submit to SDOT (at least 15 business days prior to remediation construction activities) ☒ Provide Contacts on the Construction Notification List with a Remediation Construction Project Memo (at least 10 business days prior to beginning of the remediation construction project) ☒ Provide Contacts on the Construction Notification List with a Remediation Construction Project Memo (monthly during the duration of the remediation construction project) ☒ Procure Temporary Sanitary Facility Service for Construction Workers
Q3 2021	☒ Provide Contacts on the Construction Notification List with a Remediation Construction Project Memo (monthly during the duration of the remediation construction project) ☒ Remove Underground Storage Tank ☒ Cut Maximum of 300 Cubic Yards of Soil for Off-site Disposal in Accordance with CID obtained from Ecology ☒ Procure Supplies for Soil Mixing In-situ Chemical Oxidation ("ISCO") and In-situ Stabilization ("ISS") Remediation ☒ Implement Soil Mixing Remediation ☒ Install Topsoil Cap and Hydroseed ☒ Install Replacement Monitoring Wells: MW 2R and MW 3R
Q4 2021	☒ Collect Baseline Groundwater Monitoring Samples ☒ Collected Confirmation Soil Samples ☒ Conduct EOS Gauging and Removal Event ☒ Conduct Winter Worst Case VIA for Twilight Exit & verify commercial use of Tana Market
Q1 2022	☒ Collected TCLP soil samples ☒ Conduct Winter Worst Case VIA for ISS
Q2 2022	☒ Prepare Annual Report for Submission to Ecology ☒ Apply for Permits required for OITS Install ☒ Obtain Permits required for OITS Install



Quarter & Year	CAPrev1 Scheduled Activities
Q3 2022	☒ Order OITS
Q4 2022	☒ Install New Power Supply ☒ Install Ozone Injection Wells ☒ Install OITS ☒ Initiate Operation of OITS
Q1 2023	☒ Collect Groundwater Monitoring Samples ☒ Conduct OITS Operation and Maintenance ("O&M") Service and EOS Gauging ☒ Conduct Winter Worst Case VIA for ISS, and Verify Commercial Use of Twilight Exit & Tana Market
Q2 2023	☒ Prepare Annual Report for Submission to Ecology ☒ Prepare VIA Reports for ISS and Twilight Exit & Tana Market ☒ Collect Groundwater Monitoring Samples ☒ Conduct OITS O&M Service and EOS Gauging
Q3 2023	☒ Collect Groundwater Monitoring Samples ☒ Conduct OITS O&M Service and EOS Gauging
Q4 2023	☒ Collect Groundwater Monitoring Samples ☒ Conduct OITS O&M Service and EOS Gauging
Q1 2024	☐ Collect Groundwater Monitoring Samples ☐ Conduct OITS O&M Service and EOS Gauging ☐ Verify Commercial Use and Conduct Winter Worst Case VIA for 2516 & 2518 E Cherry St ☐ Prepare Annual Report for Submission to Ecology
Q2 2024	☐ Collect Groundwater Monitoring Samples ☐ Conduct OITS O&M Service and EOS Gauging
Q3 2024	☐ Collect Groundwater Monitoring Samples ☐ Conduct OITS O&M Service and EOS Gauging
Q4 2024	☐ Collect Groundwater Monitoring Samples ☐ Conduct OITS O&M Service and EOS Gauging ☐ Terminate Operation of OITS
Q1 2025	☐ Collect Post-remedy Groundwater Monitoring Samples (Q1 of 4) ☐ Verify Commercial Use and Conduct Winter Worst Case VIA for 2516 & 2518 E Cherry St ☐ Prepare Annual Report for Submission to Ecology



Quarter & Year	CAPrev1 Scheduled Activities
Q2 2025	☐ Collect Post-remedy Groundwater Monitoring Samples (Q2 of 4)
Q3 2025	☐ Collect Post-remedy Groundwater Monitoring Samples (Q3 of 4)
Q4 2025	☐ Collect Post-remedy Groundwater Monitoring Samples (Q4 of 4) ☐ Record Environmental Covenant, if needed ☐ Prepare Closure Request for Submission to Ecology
Q1 2026	☐ Receive No Further Action Status from Ecology ☐ Complete Final Site Restoration ☐ Prepare System & Well Decommissioning Report



6 Summary

The CAPrev1 activities conducted during 2023 included continued operation of the OITS, four performance groundwater monitoring events, three EOS gauging events and two VIA events. The OITS operated with approximately 75% runtime throughout 2023. Periodic shut-downs were due to equipment malfunctions. The performance groundwater monitoring and VIA events were conducted during the 2023 monitoring events show that the implementation of interim remediation activities and the CAP Remediation Activities has resulted in the following:

- ☐ Successful removal of PCE-laden EOS from the groundwater surface
- ☐ Decreased groundwater cVOC concentrations within and immediately down-gradient from the treatment area
- ☐ Decreased soil gas cVOC concentrations at 2516 E Cherry St and 720 25th Ave
- ☐ Elimination of 720 25th Ave VI sampling
- ☐ Removal of one monitoring well from the monitoring plan

Based on the remedial actions completed to date and the schedule of activities specified in the CAPrev1, the following is scheduled for 2024:

- ☐ Continue OITS operation throughout 2024 with a modified ozone injection cycle to optimize groundwater remediation
- ☐ Conduct quarterly performance groundwater monitoring throughout 2024
- ☐ Conduct quarterly EOS gauging and vacuum removal, if necessary
- ☐ Conduct inspections and winter VI sampling during Q1 2024 at 2516 and 2518 E Cherry St
- ☐ Prepare separate reports to document the VIAs at 2516/2518 E Cherry St



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Tables

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
11/8/22	50.8	57.4	123.1	60.7	93.0	9.4	5.7	7.0	Initiate Operation
11/9/22	50.0	56.8	114.7	63.5	93.0	9.3	94.3	7.4	
11/10/22									File Missing
11/11/22	50.1	57.5	115.4	61.6	93.0	9.3	86.8	6.7	
11/12/22	51.7	57.5	113.5	61.4	93.0	9.4	86.5	6.6	
11/13/22	52.0	57.8	116.8	62.9	93.0	9.4	89.3	7.1	
11/14/22	55.4	58.4	124.4	63.9	93.0	9.2	90.5	7.2	
11/15/22	52.6	57.7	121.9	62.7	93.0	9.3	86.5	6.7	
11/16/22	53.5	57.3	117.5	62.4	93.0	9.3	87.9	6.5	
11/17/22	52.4	56.9	114.1	63.3	93.0	9.3	91.4	7.1	
11/18/22	50.0	55.9	116.0	63.7	93.0	9.2	91.3	7.4	
11/19/22	51.2	56.2	120.9	62.9	93.0	9.4	89.2	6.6	
11/20/22	50.1	57.6	121.5	64.1	93.0	9.4	92.4	6.3	
11/21/22	52.4	59.5	117.7	64.4	93.0	9.2	93.9	6.7	
11/22/22	51.4	58.7	114.4	64.3	93.0	9.3	95.0	7.1	
11/23/22	50.1	58.7	115.7	64.2	93.0	9.4	94.5	6.2	
11/24/22	54.9	61.6	120.1	64.3	93.0	9.3	94.2	6.0	
11/25/22	51.0	57.5	122.0	65.0	93.0	9.3	96.3	6.6	
11/26/22	51.3	58.2	117.0	64.6	93.0	9.3	97.2	7.0	
11/27/22	51.2	57.9	113.4	63.6	93.0	9.3	96.5	6.2	
11/28/22	49.4	55.3	115.1	64.2	93.0	9.3	96.8	6.2	
11/29/22	49.6	56.4	118.3	65.2	93.0	9.4	98.9	6.6	
11/30/22									File Missing
12/1/22	52.1	56.1	118.3	65.2	93.0	9.3	99.0	6.2	
12/2/22	52.5	57.1	114.1	65.1	93.0	9.4	98.8	6.1	
12/3/22	50.3	55.7	114.9	65.2	93.0	9.4	99.5	6.6	
12/4/22									File Missing
12/5/22	53.1	58.2	122.8	65.4	93.0	9.2	99.4	6.1	
12/6/22									File Missing
12/7/22	53.3	46.3	124.8	62.8	93.0	0.1	0.6	5.6	Cease System Operation - Ingersoll Rand air compressor service
12/8/22	52.0	58.6	111.6	66.4	93.0	9.2	100.3	6.7	Restart System Operation
12/9/22	53.8	58.9	108.1	65.5	93.0	9.4	101.6	6.0	
12/10/22	52.3	58.9	115.1	65.6	93.0	9.3	102.1	5.7	
12/11/22	50.3	58.3	114.2	66.1	93.0	9.1	102.0	6.3	
12/12/22	50.5	58.2	119.5	66.4	93.0	9.3	101.3	6.5	
12/13/22	50.4	58.4	114.8	66.4	93.0	9.2	101.6	6.0	
12/14/22	49.5	57.2	109.6	66.6	93.0	9.5	101.8	5.8	
12/15/22	54.2	57.3	112.3	66.8	93.0	9.3	102.2	6.4	
12/16/22	54.4	57.5	102.7	66.8	93.0	9.1	102.5	6.8	
12/17/22									File Missing
12/18/22	50.1	56.2	114.2	66.7	93.0	9.3	103.2	5.8	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
12/19/22	51.3	57.0	109.6	67.0	93.0	9.3	102.7	6.5	
12/20/22	49.6	55.4	118.5	66.8	93.0	9.4	103.3	6.7	
12/21/22	49.5	49.8	103.5	67.0	93.0	9.2	104.6	6.3	
12/22/22	50.4	53.2	115.4	67.0	93.0	9.2	103.8	6.0	
12/23/22	53.7	57.7	115.3	67.1	93.0	9.1	103.2	6.4	
12/24/22	56.9	63.6	109.7	67.1	93.0	9.1	100.9	6.6	
12/25/22	56.9	64.7	111.2	66.3	93.0	9.2	100.6	5.7	
12/26/22	52.6	61.0	113.3	65.6	93.0	9.2	102.8	5.7	
12/27/22									File Missing
12/28/22									File Missing - Received multiple air pressure alarms
12/29/22	47.4	48.4	62.9	50.5	93.0	0.1	2.0	0.0	Ceased System Operation
12/30/22	50.2	48.8	117.7	60.0	93.0	0.1	4.1	4.0	Site visit to troubleshoot : Found air compressor generates insufficient volume, run with sparge air only
12/31/22	50.9	47.8	105.4	57.8	93.0	0.1	2.3	5.0	
1/1/23	52.3	44.0	107.4	55.6	93.0	0.1	2.1	5.1	
1/2/23	51.7	42.6	116.8	53.8	93.0	0.1	2.1	6.5	
1/3/23	53.2	43.7	114.1	53.3	93.0	0.1	2.1	5.0	
1/4/23	53.2	43.7	114.1	53.3	93.0	0.1	2.4	5.0	
1/5/23	53.2	43.7	114.1	53.3	93.0	0.1	3.8	5.0	
1/6/23	53.2	43.7	114.1	53.3	93.0	0.1	2.4	5.0	
1/7/23	53.2	43.7	114.1	53.3	93.0	0.1	2.4	5.0	
1/8/23	53.2	43.7	114.1	53.3	93.0	0.1	2.4	5.0	
1/9/23	53.2	43.7	114.1	53.3	93.0	0.1	2.6	5.0	
1/10/23	53.2	43.7	114.1	53.3	93.0	0.1	2.8	5.0	
1/11/23									File Missing
1/12/23	53.2	43.7	114.1	53.3	93.0	0.1	2.3	5.0	
1/13/23	53.2	43.7	114.1	53.3	93.0	0.1	2.6	5.0	
1/14/23	53.2	43.7	114.1	53.3	93.0	0.1	2.9	5.0	
1/15/23									File Missing
1/16/23	50.0	58.6	106.6	49.1	93.0	9.3	5.3	7.2	
1/17/23	50.8	58.7	124.8	47.8	93.0	9.1	5.5	8.3	
1/18/23	53.3	59.6	108.7	44.9	93.0	9.2	5.5	6.0	
1/19/23	53.0	59.6	115.8	48.5	93.0	9.2	5.5	4.7	
1/20/23	53.3	59.6	123.8	49.4	93.0	9.3	5.5	5.3	
1/21/23	51.7	59.2	106.2	49.0	93.0	9.2	5.6	3.2	
1/22/23	52.0	59.2	124.2	50.4	93.0	9.3	5.6	3.1	
1/23/23	54.3	60.2	100.3	51.5	93.0	9.3	5.6	4.8	
1/24/23	50.4	58.6	115.4	54.1	93.0	9.3	5.8	5.4	
1/25/23	50.5	58.9	123.5	53.3	93.0	9.3	5.7	3.1	
1/26/23	50.8	58.6	116.1	54.2	93.0	9.4	5.8	3.2	
1/27/23	50.5	59.2	106.5	55.0	93.0	9.4	5.9	4.8	
1/28/23	51.0	58.8	110.5	55.0	93.0	9.3	5.9	5.3	
1/29/23	49.9	56.8	115.1	54.1	93.0	9.3	5.8	3.1	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
1/30/23	54.4	58.9	122.6	54.3	93.0	9.3	5.9	3.1	
1/31/23	51.1	59.0	106.4	55.9	93.0	9.4	5.9	4.8	
2/1/23	53.6	59.4	124.4	56.4	93.0	9.4	6.0	5.3	
2/2/23	51.0	58.3	111.5	54.2	93.0	9.4	6.1	3.1	
2/3/23	51.6	58.9	106.6	55.6	93.0	9.2	6.2	3.1	
2/4/23	52.5	60.9	123.3	55.9	93.0	9.4	6.2	4.7	
2/5/23	52.7	61.0	107.4	57.4	93.0	9.4	6.2	5.3	
2/6/23	52.6	59.8	124.0	54.9	93.0	9.3	6.2	3.0	
2/7/23	50.1	57.9	110.3	54.4	93.0	9.2	6.3	2.9	
2/8/23	50.6	58.7	114.6	56.8	93.0	9.3	6.3	4.7	
2/9/23	55.5	62.7	119.0	57.5	93.0	9.4	6.2	5.3	
2/10/23	50.6	58.9	106.2	55.9	93.0	9.5	6.4	3.1	
2/11/23	53.2	59.9	114.6	55.9	93.0	9.5	6.3	3.0	
2/12/23	54.3	61.5	100.7	56.7	93.0	9.4	6.4	4.9	
2/13/23	50.1	58.7	118.0	57.5	93.0	9.3	6.5	5.4	
2/14/23									File Missing
2/15/23	50.9	58.8	106.4	56.9	93.0	9.4	6.4	3.0	
2/16/23	50.6	58.0	124.2	57.3	93.0	9.4	6.6	4.8	
2/17/23	50.2	58.6	109.4	57.5	93.0	9.4	6.6	5.2	
2/18/23	50.3	58.5	119.6	56.7	93.0	9.3	6.6	3.0	
2/19/23	51.9	59.3	123.0	56.5	93.0	9.4	6.7	2.8	
2/20/23	52.4	59.7	106.2	57.6	93.0	9.3	6.8	4.8	
2/21/23	54.8	60.4	123.8	57.7	93.0	9.3	6.8	5.3	
2/22/23	51.2	58.1	109.4	55.5	93.0	9.4	6.7	3.0	
2/23/23	52.9	56.6	115.6	56.8	93.0	9.3	6.7	3.0	
2/24/23	51.5	56.7	123.8	57.5	93.0	9.3	6.7	4.7	
2/25/23	50.7	57.9	108.3	59.1	93.0	9.3	6.9	5.6	
2/26/23	51.1	57.5	107.1	57.3	93.0	9.5	6.9	3.0	
2/27/23	51.9	58.9	108.0	57.0	93.0	9.4	7.0	2.9	
2/28/23	53.3	59.6	118.7	59.1	93.0	9.3	6.9	4.9	
3/1/23	50.0	57.9	106.4	58.9	93.0	9.4	6.9	5.4	
3/2/23	51.5	59.0	108.4	59.2	93.0	9.5	-0.2	3.0	
3/3/23	50.2	58.7	123.4	58.6	93.0	9.4	-0.1	2.9	
3/4/23	51.2	59.1	108.7	58.9	93.0	9.4	-0.1	4.7	
3/5/23	53.7	60.4	118.0	60.4	93.0	9.3	-0.1	5.4	
3/6/23	50.1	58.5	123.1	58.8	93.0	9.3	0.0	2.8	
3/7/23	53.6	61.1	105.9	59.8	93.0	9.4	0.0	2.8	
3/8/23	51.0	60.3	106.0	59.6	93.0	9.3	0.0	4.8	
3/9/23	52.9	60.9	100.4	60.0	93.0	9.3	0.0	5.5	
3/10/23	50.9	59.7	123.7	59.7	93.0	9.4	0.1	2.8	
3/11/23									File Missing
3/12/23									File Missing

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
3/13/23									File Missing
3/14/23	51.7	60.5	112.2	67.7	93.0	9.3	112.1	2.7	Resolved issues with oxygen purity and ozone generation resumed
3/15/23	50.5	59.4	103.2	68.1	93.0	9.3	100.4	2.7	
3/16/23	50.6	59.6	104.6	68.2	93.0	9.4	101.1	4.6	
3/17/23	58.0	66.7	111.2	68.6	93.0	9.4	97.0	5.1	
3/18/23	58.8	67.5	111.1	68.1	93.0	9.3	96.3	2.6	
3/19/23	59.1	67.3	112.0	67.9	93.0	9.4	97.2	2.6	
3/20/23	55.9	64.1	102.7	68.6	93.0	9.3	100.4	4.6	
3/21/23	54.1	63.1	109.9	68.7	93.0	9.5	100.6	5.2	
3/22/23	59.8	68.4	113.8	68.7	93.0	9.4	96.8	2.6	
3/23/23	55.3	59.6	120.6	68.5	93.0	9.5	103.5	2.6	
3/24/23	49.8	58.7	112.5	68.7	93.0	9.5	103.4	4.5	
3/25/23	50.1	58.6	114.5	69.3	93.0	9.5	104.2	5.2	
3/26/23	51.4	59.4	109.5	69.1	93.0	9.4	103.6	2.7	
3/27/23	54.4	62.8	120.3	69.1	93.0	9.3	101.2	2.7	
3/28/23	61.1	67.3	109.6	68.7	93.0	9.3	98.3	4.5	
3/29/23	56.0	64.7	112.2	68.9	93.0	9.4	99.8	5.2	
3/30/23	52.7	60.6	114.8	69.1	93.0	9.4	102.7	2.6	
3/31/23	50.3	58.6	120.6	68.9	93.0	9.4	104.0	2.6	
4/1/23	51.0	59.1	123.5	69.2	93.0	9.5	104.0	4.6	
4/2/23	53.9	61.2	109.5	68.7	93.0	9.5	102.8	5.2	
4/3/23	50.0	58.9	115.9	68.7	93.0	9.5	103.9	2.7	
4/4/23	50.3	58.3	116.5	69.2	93.0	9.1	106.6	6.0	quarterly system maintenance performed
4/5/23	54.9	62.5	117.4	69.1	93.0	8.9	104.2	4.8	
4/6/23	55.8	63.7	122.8	69.1	93.0	8.9	103.6	4.8	
4/7/23	53.1	61.0	109.3	69..7	93.0	8.9	105.5	5.6	
4/8/23	56.3	64.5	116.5	69.4	93.0	8.8	103.1	5.7	
4/9/23	54.7	63.9	114.8	69.7	93.0	8.9	103.5	4.6	
4/10/23	54.7	60.5	119.4	69.6	93.0	8.8	105.9	4.9	
4/11/23	51.0	59.7	122.5	70.0	93.0	8.9	106.0	5.6	
4/12/23	52.0	61.0	121.5	69.2	93.0	9.0	103.5	5.8	
4/13/23	51.5	60.3	108.7	69.0	93.0	8.9	105.0	4.7	
4/14/23	56.9	65.6	109.2	69.4	93.0	8.9	100.9	4.7	
4/15/23	55.2	63.7	101.2	69.4	93.0	8.9	101.7	5.6	
4/16/23	49.9	58.6	104.8	69.8	93.0	8.9	105.7	6.0	
4/17/23	50.5	59.4	117.0	69.7	93.0	8.9	104.7	4.7	
4/18/23	52.5	59.8	108.8	69.8	93.0	8.9	104.8	4.9	
4/19/23	50.2	59.0	115.8	70.2	93.0	9.1	105.1	5.7	
4/20/23	50.3	59.1	114.1	70.3	93.0	9.0	105.3	6.0	
4/21/23	56.6	64.9	114.9	70.0	93.0	9.0	101.7	4.6	
4/22/23	60.3	69.4	119.7	69.4	93.0	9.0	97.2	4.6	
4/23/23	53.9	62.6	104.6	69.1	93.0	8.8	101.8	5.6	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
4/24/23									File Missing
4/25/23	52.1	53.6	83.0	59.2	29.6	0.1	-2.0	0.0	Air pressure issue encountered
4/26/23	56.0	57.9	82.3	55.5	27.3	0.1	-2.2	0.0	
4/27/23	56.5	58.5	80.9	51.8	25.5	0.1	-2.2	0.0	
4/28/23	64.4	66.3	80.8	49.6	26.9	0.1	-2.8	0.0	
4/29/23	65.1	67.2	79.6	47.0	25.3	0.1	-3.0	0.1	
4/30/23	57.0	58.6	77.5	43.9	23.5	0.1	-2.4	0.0	
5/1/23	59.6	67.7	100.0	67.0	93.0	8.9	94.0	4.5	Resolved air pressure issue: Ingersoll Rand Warranty Repair for Sticking Inlet Valve
5/2/23	71.1	78.5	109.3	68.2	93.0	8.8	87.6	5.4	
5/3/23	69.1	77.6	116.7	69.0	93.0	8.7	86.8	6.0	
5/4/23	58.2	65.7	106.1	69.7	93.0	8.8	97.8	4.6	
5/5/23	57.0	64.6	118.6	69.4	93.0	8.8	98.8	4.3	
5/6/23	60.8	69.2	102.5	69.3	93.0	8.9	94.3	5.7	
5/7/23	62.0	70.7	99.6	69.8	93.0	8.7	93.6	6.3	
5/8/23	64.4	72.2	102.4	70.0	93.0	8.8	93.2	4.5	
5/9/23	62.9	71.2	109.8	68.6	93.0	8.7	94.4	4.2	
5/10/23	62.5	63.4	106.0	2.0	27.2	0.1	-2.4	0.0	Major air leak at oxygen concentrator encountered
5/11/23	61.2	63.6	114.9	1.4	20.2	0.1	-2.6	0.0	
5/12/23	69.0	70.2	113.2	0.6	20.6	0.1	-3.1	0.0	
5/13/23	72.7	74.6	111.1	0.0	20.2	0.1	-3.3	0.0	
5/14/23	75.1	77.1	108.7	0.0	20.5	0.1	-3.4	0.0	
5/15/23	70.0	73.2	105.3	0.0	20.8	0.1	-3.2	0.0	
5/16/23	68.4	69.7	114.8	66.5	93.0	8.9	98.4	5.0	Resolved air leak at oxygen concentrator
5/17/23	69.8	70.5	111.9	67.0	93.0	9.1	100.8	5.8	
5/18/23									File Missing
5/19/23	68.4	69.0	105.4	67.6	93.0	9.0	101.0	4.7	
5/20/23	67.1	69.4	107.4	67.7	93.0	9.0	101.7	4.9	
5/21/23	58.0	66.6	114.1	67.8	93.0	8.9	102.3	5.7	
5/22/23	60.9	66.9	99.1	67.9	93.0	8.9	102.5	6.0	
5/23/23	62.3	66.3	100.5	68.0	93.0	8.9	102.3	4.8	
5/24/23	64.9	67.7	120.3	67.9	93.0	8.9	102.8	4.9	
5/25/23	68.9	70.0	104.4	68.1	93.0	9.1	101.5	5.8	
5/26/23	70.1	71.1	100.8	67.9	93.0	9.0	101.1	6.1	
5/27/23	64.8	67.6	111.9	67.8	93.0	9.0	102.7	4.7	
5/28/23	62.8	67.9	102.5	68.0	93.0	8.9	102.6	4.9	
5/29/23	64.4	67.8	106.5	67.9	93.0	8.9	101.9	5.7	
5/30/23	58.8	65.9	107.1	68.3	93.0	8.8	103.0	6.0	
5/31/23	56.8	59.7	53.3	60.4	57.3	0.1	-1.2	0.1	Air dryer condensate drain issue encountered
6/1/23	58.5	61.6	51.5	53.9	40.3	0.1	-2.2	0.1	
6/2/23	61.2	63.9	50.0	48.8	33.6	0.1	-2.4	0.1	
6/3/23	60.7	63.7	48.5	44.8	29.2	0.1	-2.4	0.0	
6/4/23	58.0	60.6	47.0	41.4	27.0	0.1	-2.3	0.0	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
6/5/23	65.0	66.9	90.4	68.4	93.0	9.0	101.3	5.2	Resolved air dryer condensate drain issue
6/6/23	70.0	69.3	89.4	68.8	93.0	8.9	101.7	5.2	
6/7/23	72.8	70.6	94.5	69.5	93.0	9.0	101.3	6.6	
6/8/23	71.6	69.6	96.4	69.6	93.0	9.0	101.1	6.6	
6/9/23	60.4	65.8	109.6	68.6	93.0	9.0	102.5	4.5	
6/10/23	63.7	68.4	104.7	68.1	93.0	8.9	102.7	4.5	
6/11/23	66.7	68.7	100.4	68.2	93.0	8.9	102.0	6.0	
6/12/23	71.7	69.4	101.7	68.6	93.0	9.0	102.5	6.1	
6/13/23	63.5	66.7	107.0	68.1	93.0	8.8	103.2	4.5	
6/14/23	63.3	67.6	107.1	68.6	93.0	8.9	103.2	4.5	
6/15/23	66.5	69.3	109.0	68.4	93.0	9.0	101.8	6.0	
6/16/23	64.0	68.5	110.2	68.5	93.0	8.9	101.2	6.0	
6/17/23	58.5	66.1	114.0	68.4	93.0	9.0	98.7	4.4	
6/18/23	58.1	66.5	120.1	59.4	89.6	8.8	71.5	7.0	
6/19/23	59.9	65.9	119.0	65.8	93.0	8.9	99.2	8.9	quarterly system maintenance performed
6/20/23	60.9	66.7	114.8	65.3	93.0	9.0	98.6	7.4	
6/21/23	65.0	68.4	110.9	65.2	93.0	8.8	98.4	7.0	
6/22/23	68.5	69.7	114.8	65.6	93.0	8.8	98.9	8.5	
6/23/23	68.3	69.6	109.4	66.3	93.0	9.0	99.0	9.0	
6/24/23	65.5	68.5	118.6	65.5	93.0	9.0	98.5	7.4	
6/25/23	69.9	70.5	107.7	65.5	93.0	8.9	98.0	7.0	
6/26/23	69.8	70.8	99.3	65.6	93.0	9.0	99.1	8.7	
6/27/23	70.2	70.1	114.4	66.0	93.0	9.0	99.6	8.9	
6/28/23	71.2	71.2	120.8	65.9	93.0	9.0	98.6	7.4	
6/29/23	69.4	70.0	106.7	65.8	93.0	9.0	98.8	7.1	
6/30/23	68.5	69.3	103.0	65.8	93.0	9.0	99.4	8.6	
7/1/23	67.1	69.5	111.1	66.3	93.0	9.0	99.5	8.9	
7/2/23	69.6	69.9	103.2	65.8	93.0	9.0	98.8	7.4	
7/3/23	69.9	71.1	120.6	66.2	93.0	8.9	98.5	7.0	
7/4/23	73.1	70.7	105.8	66.2	93.0	9.1	100.0	8.7	
7/5/23	76.9	73.5	107.8	66.3	93.0	9.1	98.8	9.0	
7/6/23	72.1	70.7	112.4	66.2	93.0	9.0	99.4	7.5	
7/7/23	68.9	69.4	116.3	66.1	93.0	8.9	99.0	7.0	
7/8/23	68.6	69.5	106.7	66.4	93.0	8.9	100.0	8.5	
7/9/23	68.8	70.8	105.6	66.3	93.0	8.9	99.9	8.9	
7/10/23	68.9	69.5	106.5	65.6	93.0	8.8	98.9	7.3	
7/11/23	68.7	70.4	110.2	65.8	93.0	8.8	98.9	7.0	
7/12/23	69.1	69.5	116.5	66.2	93.0	8.9	100.2	8.4	
7/13/23	70.5	71.1	112.2	66.8	93.0	9.0	100.0	8.9	
7/14/23	72.5	70.5	116.0	66.2	93.0	9.1	99.8	7.4	
7/15/23	71.9	70.8	113.3	66.2	93.0	9.0	99.1	7.1	
7/16/23	70.5	70.1	110.9	66.5	93.0	8.9	100.0	8.5	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
7/17/23	66.8	68.4	102.7	66.7	93.0	9.0	100.6	8.8	
7/18/23	70.7	71.0	106.0	66.3	93.0	9.0	99.3	7.3	
7/19/23	75.4	72.1	106.3	66.3	93.0	9.0	98.8	7.1	
7/20/23									File Missing
7/21/23									File Missing
7/22/23	69.7	70.2	102.3	66.2	93.0	9.0	100.1	7.3	
7/23/23	70.9	71.2	120.3	66.5	93.0	8.8	99.3	7.0	
7/24/23	65.4	68.0	118.9	66.4	93.0	9.1	100.7	8.3	
7/25/23	66.2	69.1	102.7	66.2	93.0	9.0	100.4	8.8	
7/26/23	68.4	69.7	99.4	66.0	93.0	8.9	99.9	7.4	
7/27/23	70.8	70.3	110.9	66.2	93.0	8.9	99.7	7.0	
7/28/23	70.0	70.4	106.7	66.8	93.0	8.9	100.1	8.4	
7/29/23	67.9	69.9	104.8	66.6	93.0	8.9	100.3	8.8	
7/30/23	67.9	69.2	102.3	66.1	93.0	8.8	99.6	7.3	
7/31/23	68.7	68.9	112.2	66.3	93.0	8.9	99.9	7.0	
8/1/23	70.6	70.5	114.9	66.6	93.0	8.9	100.8	8.4	
8/2/23	70.5	71.0	111.9	67.1	93.0	8.8	100.7	8.8	
8/3/23	71.5	69.8	106.9	66.8	93.0	9.0	100.6	7.4	
8/4/23	72.5	69.7	103.0	66.4	93.0	9.0	100.8	7.1	
8/5/23	69.6	70.0	99.6	66.5	93.0	8.9	101.0	8.5	
8/6/23	70.8	69.7	114.8	66.7	93.0	9.0	101.7	8.7	
8/7/23	71.0	70.9	105.8	66.2	93.0	8.9	100.4	7.2	
8/8/23	69.8	68.4	118.4	66.2	93.0	8.9	100.7	7.0	
8/9/23	67.1	68.4	102.3	66.2	93.0	8.8	100.7	8.4	
8/10/23	67.3	69.4	112.8	66.5	93.0	8.9	101.1	8.6	
8/11/23	70.5	69.9	110.9	66.3	93.0	9.0	100.3	7.2	
8/12/23	71.2	68.9	111.4	66.9	93.0	8.9	100.5	7.0	
8/13/23	76.1	73.0	119.6	66.8	93.0	8.9	99.3	8.2	
8/14/23	77.7	74.5	115.5	66.8	93.0	9.1	98.1	8.6	
8/15/23	80.6	76.9	112.7	66.5	93.0	9.1	96.4	7.0	
8/16/23	79.2	76.0	108.7	66.8	93.0	9.0	96.8	6.8	
8/17/23	73.4	71.4	112.1	67.2	93.0	8.9	100.1	8.3	
8/18/23	68.3	68.3	107.4	67.1	93.0	9.0	101.4	8.8	
8/19/23	68.8	68.0	114.3	66.5	93.0	9.0	100.9	7.2	
8/20/23	68.5	68.2	112.1	66.8	93.0	9.0	100.9	6.9	
8/21/23	66.7	68.1	111.1	66.8	93.0	9.0	101.1	8.2	
8/22/23	67.1	69.2	113.0	67.2	93.0	9.0	101.1	8.6	
8/23/23	66.2	67.5	106.3	66.8	93.0	8.9	101.2	7.2	
8/24/23	68.4	67.8	103.0	66.3	93.0	8.9	100.6	6.9	
8/25/23	68.9	68.3	99.7	66.7	93.0	8.9	101.5	8.4	
8/26/23	73.0	69.6	101.0	67.2	93.0	9.0	101.6	8.8	
8/27/23	71.7	68.7	106.0	67.0	93.0	8.9	101.4	7.2	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
8/28/23	68.2	69.2	107.5	66.7	93.0	8.9	100.5	6.8	
8/29/23	64.5	67.7	108.0	66.4	93.0	8.9	101.6	8.1	
8/30/23	69.1	68.9	110.5	66.7	93.0	8.9	101.3	8.6	
8/31/23	65.4	66.9	110.3	66.4	93.0	9.0	101.2	7.1	
9/1/23	69.7	69.2	105.1	66.8	93.0	9.1	101.1	6.8	
9/2/23	71.4	68.6	118.6	66.8	93.0	9.0	102.2	8.2	
9/3/23	64.3	66.6	114.5	66.8	93.0	8.9	101.8	8.5	
9/4/23	63.5	66.5	109.4	66.4	93.0	8.8	101.4	7.0	
9/5/23	64.7	66.7	111.0	66.7	93.0	8.8	101.3	6/7	
9/6/23	66.6	68.5	105.9	67.0	93.0	8.9	101.4	8.1	
9/7/23	64.1	67.2	107.4	67.1	93.0	8.9	102.1	8.5	
9/8/23	65.2	66.5	114.1	66.6	93.0	8.8	101.5	7.1	
9/9/23	67.9	68.5	112.5	66.6	93.0	8.9	101.1	6.7	
9/10/23	70.1	69.4	111.2	66.8	93.0	9.0	101.4	8.2	
9/11/23	65.5	67.3	106.4	66.9	93.0	8.9	101.6	8.5	
9/12/23	63.9	66.7	106.7	66.8	93.0	8.9	101.0	6.9	
9/13/23	65.8	67.0	107.7	66.5	93.0	9.0	101.0	6.6	
9/14/23	65.7	68.5	111.1	66.9	93.0	9.0	101.7	8.0	
9/15/23	67.5	68.8	114.3	67.0	93.0	8.9	101.3	8.4	
9/16/23	64.1	67.3	121.1	67.0	93.0	8.9	101.3	6.9	
9/17/23	68.1	68.4	118.5	66.9	93.0	8.9	101.3	6.6	
9/18/23	61.7	66.2	115.4	67.1	93.0	8.9	102.6	8.0	
9/19/23	62.8	67.2	112.2	67.1	93.0	8.9	101.9	8.5	
9/20/23	59.5	65.6	110.9	67.0	93.0	8.8	102.0	7.0	
9/21/23	60.7	64.6	111.6	67.4	93.0	8.8	102.2	6.7	
9/22/23	64.0	65.9	106.4	67.2	93.0	8.8	102.3	8.1	
9/23/23	61.4	66.5	104.0	67.1	93.0	8.8	102.4	8.4	
9/24/23	62.2	67.1	99.0	66.5	93.0	8.9	101.8	6.9	
9/25/23	60.5	64.9	100.5	66.5	93.0	8.8	102.4	6.5	
9/26/23	60.2	65.3	107.2	66.9	93.0	8.8	103.0	7.9	
9/27/23	60.9	64.7	107.4	66.9	93.0	9.0	102.9	7.6	
9/28/23	58.5	65.2	108.2	66.7	93.0	8.8	101.7	6.8	
9/29/23	57.1	64.8	110.4	66.6	93.0	8.9	101.3	6.4	
9/30/23	57.3	65.1	115.0	66.8	93.0	8.9	101.5	7.1	
10/1/23	58.9	65.3	120.8	67.3	93.0	8.8	102.2	7.5	
10/2/23	61.3	65.9	118.0	67.1	93.0	8.9	102.4	6.8	
10/3/23	61.1	65.2	116.1	67.1	93.0	9.0	102.4	6.5	
10/4/23	62.3	66.6	112.9	67.3	93.0	8.8	102.4	7.2	
10/5/23	61.5	64.6	111.2	67.3	93.0	9.0	102.6	7.5	
10/6/23	63.0	66.5	112.8	67.1	93.0	8.9	101.9	6.8	
10/7/23	67.3	66.6	105.6	67.1	93.0	8.9	102.2	6.6	
10/8/23	63.2	66.6	103.2	66.8	93.0	8.9	102.5	7.2	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
10/9/23	61.9	65.5	99.8	66.9	93.0	8.8	103.2	7.6	
10/10/23	58/.9	65.1	100.1	66.7	93.0	8.8	102.2	6.8	
10/11/23	58.6	64.6	106.8	67.2	93.0	8.9	102.5	6.4	
10/12/23	57.9	63.5	106.8	67.2	93.0	8.8	102.5	7.1	
10/13/23	61.2	64.9	108.3	67.1	93.0	8.8	102.8	7.5	
10/14/23	62.3	66.4	109.9	67.1	93.0	8.8	102.7	6.7	
10/15/23	61.7	66.1	114.7	67.1	93.0	8.8	102.7	6.4	
10/16/23	59.0	63.6	118.0	67.1	93.0	8.7	102.8	7.0	
10/17/23	59.9	65.7	120.6	67.5	93.0	8.8	102.8	7.3	
10/18/23	63.2	66.1	122.5	67.1	93.0	8.8	102.0	6.1	quarterly system maintenance performed
10/19/23	65.5	67.1	106.7	67.6	93.0	8.9	102.3	7.0	
10/20/23	60.2	65.2	115.8	67.1	93.0	8.8	102.5	7.4	
10/21/23	59.0	64.1	109.7	67.1	93.0	9.0	103.0	6.5	
10/22/23	55.3	63.6	114.3	67.1	93.0	8.9	102.4	6.1	
10/23/23	57.2	65.0	121.3	67.6	93.0	8.8	101.4	6.9	
10/24/23	53.1	60.8	107.7	67.8	93.0	9.0	104.7	7.5	
10/25/23	51.6	59.3	105.9	67.9	93.0	8.9	105.7	6.7	
10/26/23	50.3	58.2	103.0	68.3	93.0	8.9	106.2	6.4	
10/27/23	49.9	57.6	114.9	68.7	93.0	8.9	106.2	7.2	
10/28/23	53.3	58.7	120.9	68.9	93.0	8.9	106.4	7.5	
10/29/23	51.6	58.9	122.0	68.9	93.0	9.0	106.6	6.8	
10/30/23	50.2	58.2	107.9	68.7	93.0	9.0	105.7	6.4	
10/31/23	51.3	58.8	102.8	68.7	93.0	8.9	105.6	7.3	
11/1/23	56.8	64.3	113.8	68.4	93.0	8.8	101.9	7.3	
11/2/23	59.6	64.5	114.9	68.2	93.0	8.9	103.2	6.4	
11/3/23	59.3	65.5	110.2	68.1	93.0	8.8	102.1	6.2	
11/4/23	59.8	65.4	103.9	67.8	93.0	8.9	102.6	7.0	
11/5/23	57.7	64.6	110.6	67.5	93.0	8.8	102.4	7.4	
11/6/23	57.1	64.9	110.9	67.5	93.0	8.9	101.8	6.4	
11/7/23	55.0	63.3	115.3	68.4	93.0	8.9	103.4	6.1	
11/8/23	50.8	59.3	111.7	68.7	93.0	8.9	105.5	7.1	
11/9/23	53.2	60.8	107.4	68.4	93.0	8.9	105.1	7.4	
11/10/23	55.4	62.6	111.1	68.1	93.0	8.9	103.4	6.6	
11/11/23	55.4	62.6	112.3	68.4	93.0	8.8	103.7	6.2	
11/12/23	55.9	63.2	112.8	68.3	93.0	8.9	102.4	7.0	
11/13/23	55.2	61.2	122.3	68.6	93.0	8.8	104.9	7.3	
11/14/23	51.5	58.9	107.5	68.7	93.0	9.0	105.4	6.7	
11/15/23	51.7	58.8	114.6	68.7	93.0	8.9	105.5	6.2	
11/16/23	55.2	59.9	101.2	68.7	93.0	8.9	105.4	7.2	
11/17/23	54.5	59.9	108.5	68.9	93.0	9.0	105.2	7.4	
11/18/23	54.5	61.8	110.8	68.7	93.0	8.8	103.2	6.6	
11/19/23	51.4	59.1	111.2	68.9	93.0	9.0	106.6	6.2	

Table 1. Summary of OITS Daily Operation Data

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Date	Rear Trailer Temp (degF)	Front Trailer Temp (degF)	Air Pressure (PSI)	O2 Pressure (PSI)	O2 Purity (%)	O3 Generator (Amps)	O3 Concentration (g/m3)	Well Pressure (PSI)	Notes
11/20/23	53.1	59.2	112.2	68.9	93.0	8.9	105.7	7.1	
11/21/23	55.1	62.9	114.5	68.7	93.0	8.9	102.8	7.3	
11/22/23	50.3	58.6	120.5	68.9	93.0	8.8	105.7	6.5	
11/23/23	53.8	59.5	109.6	68.9	93.0	8.9	106.0	6.2	
11/24/23	51.3	57.8	111.4	69.1	93.0	8.8	105.8	7.2	
11/25/23	55.2	59.3	113.2	69.1	93.0	8.9	105.5	7.4	
11/26/23	49.9	57.2	103.0	69.1	93.0	9.0	105.9	6.6	
11/27/23	49.9	57.6	115.4	69.3	93.0	8.9	105.1	6.2	
11/28/23	51.5	58.4	114.5	69.3	93.0	8.8	104.5	7.1	
11/29/23	52.2	59.0	121.0	69.1	93.0	8.9	105.3	7.4	
11/30/23	50.2	56.9	106.1	69.0	93.0	9.0	106.6	6.6	
12/1/23	52.1	58.6	114.9	68.8	93.0	8.9	105.8	6.2	
12/2/23	51.4	58.5	115.6	69.0	93.0	8.9	105.8	7.1	
12/3/23	55.7	62.1	115.0	68.8	93.0	8.9	103.1	7.2	
12/4/23	59.8	64.9	110.8	68.4	93.0	9.0	102.2	6.3	
12/5/23	55.8	63.6	105.9	68.1	93.0	8.8	102.8	6.0	
12/6/23	53.2	61.8	113.8	68.1	93.0	8.9	103.4	6.8	
12/7/23	50.5	58.4	109.3	68.6	93.0	8.9	105.9	7.2	
12/8/23	51.4	58.5	110.8	68.7	93.0	9.0	105.5	6.4	
12/9/23	50.5	58.2	112.2	68.7	93.0	8.9	106.2	6.2	
12/10/23	55.9	64.0	107.2	68.1	93.0	8.9	101.7	6.8	
12/11/23	51.6	59.7	117.7	68.6	93.0	8.8	105.6	7.2	
12/12/23	49.9	57.5	116.7	68.7	93.0	9.0	105.0	6.4	
12/13/23	57.0	64.0	66.0	67.3	93.0	8.8	102.2	6.6	Electrical surge on air compressor
12/14/23	52.3	59.1	120.3	65.8	93.0	8.8	102.9	7.2	Air compressor restarted and annual maintenance performed
12/15/23	52.4	58.0	117.7	65.8	93.0	8.8	104.0	7.3	
12/16/23	50.7	55.6	116.7	66.4	93.0	8.9	104.4	7.8	
12/17/23	50.5	57.1	116.6	66.5	93.0	8.9	105.3	8.0	
12/18/23									File Missing
12/19/23	53.9	60.6	108.9	65.6	93.0	8.9	102.6	7.3	
12/20/23	52.0	59.2	105.5	66.1	93.0	8.9	104.1	7.7	
12/21/23	51.6	57.9	121.2	66.3	93.0	8.9	105.0	7.8	
12/22/23	53.0	56.4	128.8	66.2	93.0	8.9	104.2	7.1	
12/23/23	52.0	55.1	114.8	66.7	93.0	8.9	104.2	7.3	
12/24/23	55.3	57.4	122.4	66.8	93.0	8.9	105.5	7.8	
12/25/23	53.8	58.3	118.0	66.3	93.0	8.9	105.0	7.9	
12/26/23	53.1	59.5	120.1	66.2	93.0	9.4	103.0	7.0	
12/27/23	56.2	61.4	125.7	66.2	93.0	9.3	102.4	7.1	
12/28/23	59.7	64.9	126.3	66.5	93.0	8.8	100.8	7.4	
12/29/23	60.7	66.3	114.9	66.2	93.0	8.7	99.7	7.7	
12/30/23	55.4	61.3	115.1	66.0	93.0	8.8	102.2	7.0	
12/31/23	52.3	56.7	116.7	66.5	93.0	8.8	104.5	7.3	

Table 2. Monitoring Well Gauging and Low-Flow Stabilization Parameters

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Monitoring Well Construction Information					Gauging Data									Low Flow Stabilization Parameters					
	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)								
			Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake	Temp (C)	pH	Conductivity (uS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-1	2.0	22.0 - 42.0	280.87	258.71	238.71	9/30/21	No EOS	29.69	40.45	35.07	0.00	251.18	240.42	245.80	15.74	5.07	2,197.3	297.03	0.28	63.7
MW-1	2.0	22.0 - 42.0	280.87	258.71	238.71	3/10/23	No EOS	28.72	40.56	34.50	0.00	252.15	240.31	246.37	13.57	4.95	1,970.8	52.57	0.32	54.8
MW-1	2.0	22.0 - 42.0	280.87	258.71	238.71	6/17/23	No EOS	28.13	40.75	34.00	0.00	252.74	240.12	246.87	16.64	4.39	2,475.0	18.17	3.89	-16.7
MW-1	2.0	22.0 - 42.0	280.87	258.71	238.71	9/23/23	No EOS	29.40	40.81	35.50	0.00	251.47	240.06	245.37	15.28	4.70	2,142.2	62.02	0.60	-8.2
MW-1	2.0	22.0 - 42.0	280.87	258.71	238.71	11/30/23	No EOS	29.97	40.65	35.00	0.00	250.90	240.22	245.87	10.64	5.07	1,893.6	58.80	1.87	50.4
MW-2R	2.0	20.0 - 40.0	278.95	258.95	238.95	9/30/21	No EOS	27.83	38.40	33.41	0.00	251.12	240.55	245.54	15.45	6.41	387.77	113.00	5.98	160.7
MW-2R	2.0	20.0 - 40.0	278.95	258.95	238.95	3/10/23	No EOS	26.71	38.64	32.50	0.00	252.24	240.31	246.45	13.15	5.92	1,685.40	42.11	10.29	299.2
MW-2R	2.0	20.0 - 40.0	278.95	258.95	238.95	6/17/23	No EOS	25.65	38.63	32.00	0.00	253.30	240.32	246.95	14.25	5.84	1,752.9	22.81	14.56	177.1
MW-2R	2.0	20.0 - 40.0	278.95	258.95	238.95	9/23/23	No EOS	27.71	38.96	33.00	0.00	251.24	239.99	245.95	14.82	6.10	1,299.9	10.44	16.92	165.8
MW-2R	2.0	20.0 - 40.0	278.95	258.95	238.95	11/30/23	No EOS	28.08	38.80	34.00	0.00	250.87	240.15	244.95	13.33	6.14	1,259.9	14.26	19.98	225.0
MW-3R	2.0	20.0 - 40.0	279.59	259.59	239.59	9/30/21	No EOS	28.41	38.66	33.54	0.00	251.18	NM	NA	15.11	6.57	472.69	644.59	5.88	131.8
MW-3R	2.0	20.0 - 40.0	279.59	259.59	239.59	3/10/23	No EOS	27.34	29.00	28.00	0.00	252.25	250.59	251.59	10.72	6.11	449.04	10.20	4.68	258.1
MW-3R	2.0	20.0 - 40.0	279.59	259.59	239.59	6/17/23	No EOS	26.75	29.05	28.50	0.00	252.84	250.54	251.09	14.81	5.93	674.48	1.74	4.66	147.8
MW-3R	2.0	20.0 - 40.0	279.59	259.59	239.59	9/23/23	No EOS	27.95	29.30	NA	0.00	251.64	250.29	NA	bailed well due to insufficient water column height					
MW-3R	2.0	20.0 - 40.0	279.59	259.59	239.59	11/30/23	No EOS	28.60	29.10	NA	0.00	250.99	250.49	NA	bailed well due to insufficient water column height					
MW-4	2.0	25.0 - 35.0	273.93	248.93	238.93	9/30/21	No EOS	22.79	33.26	28.63	0.00	251.14	240.67	245.30	14.52	6.12	166.89	243.46	8.31	173.6
MW-4	2.0	25.0 - 35.0	273.93	248.93	238.93	3/10/23	No EOS	21.56	32.14	28.50	0.00	252.37	241.79	245.43	13.09	6.17	167.74	36.52	8.08	277.4
MW-4	2.0	25.0 - 35.0	273.93	248.93	238.93	6/17/23	No EOS	21.15	32.45	29.00	0.00	252.78	241.48	244.93	14.13	6.15	148.05	110.21	8.03	246.2
MW-4	2.0	25.0 - 35.0	273.93	248.93	238.93	9/23/23	No EOS	22.50	32.40	27.50	0.00	251.43	241.53	246.43	14.63	6.04	159.24	66.57	7.62	137.2
MW-4	2.0	25.0 - 35.0	273.93	248.93	238.93	11/30/23	No EOS	22.95	32.25	28.00	0.00	250.98	241.68	245.93	12.86	6.22	144.69	128.32	7.97	169.1
MW-5	2.0	31.5 - 41.5	280.00	248.50	238.50	9/30/21	No EOS	28.62	40.69	36.04	0.00	251.38	239.31	243.96	17.28	6.67	389.90	199.76	9.04	172.8
MW-5	2.0	31.5 - 41.5	280.00	248.50	238.50	3/10/23	No EOS	27.45	40.42	36.00	0.00	252.55	239.58	244.00	11.99	6.70	347.49	471.79	7.13	228.8
MW-5	2.0	31.5 - 41.5	280.00	248.50	238.50	6/17/23	No EOS	27.03	40.81	36.00	0.00	252.97	239.19	244.00	14.92	6.45	346.00	8.44	6.82	140.1
MW-5	2.0	31.5 - 41.5	280.00	248.50	238.50	9/23/23	No EOS	28.35	40.78	36.00	0.00	251.65	239.22	244.00	16.16	6.46	391.69	7.34	8.37	126.0
MW-5	2.0	31.5 - 41.5	280.00	248.50	238.50	11/30/23	No EOS	28.90	40.53	35.00	0.00	251.10	239.47	245.00	13.08	6.76	343.57	6.26	7.93	153.5
MW-6	2.0	31.5 - 41.5	281.41	249.91	239.91	9/30/21	No EOS	28.19	39.68	25.94	0.00	253.22	241.73	255.47	15.56	6.33	337.60	601.43	6.16	178.7
MW-6	2.0	31.5 - 41.5	281.41	249.91	239.91	3/10/23	No EOS	29.13	40.33	35.00	0.00	252.28	241.08	246.41	13.16	6.61	411.62	270.67	6.15	319.6
MW-6	2.0	31.5 - 41.5	281.41	249.91	239.91	6/17/23	No EOS	28.71	41.25	35.00	0.00	252.70	240.16	246.41	14.15	6.41	403.06	1.40	6.16	134.7
MW-6	2.0	31.5 - 41.5	281.41	249.91	239.91	9/23/23	No EOS	30.00	41.20	36.50	0.00	251.41	240.21	244.91	15.17	6.47	410.49	0.79	5.92	125.9
MW-6	2.0	31.5 - 41.5	281.41	249.91	239.91	11/30/23	No EOS	30.50	41.15	36.00	0.00	250.91	240.26	245.41	13.19	6.47	378.04	0.27	6.05	220.0
MW-7	4.0	20.0 - 40.0	280.12	260.12	240.12	9/30/21	No EOS	29.90	39.50	34.70	0.00	250.22	NM	245.42	15.69	5.57	592.67	46.69	0.11	40.4
MW-7	4.0	20.0 - 40.0	280.12	260.12	240.12	3/10/23	No EOS	27.96	38.95	33.50	0.00	252.16	241.17	246.62	13.72	5.93	435.66	9.76	0.22	31.8
MW-7	4.0	20.0 - 40.0	280.12	260.12	240.12	6/17/23	No EOS	27.35	40.10	34.00	0.00	252.77	240.02	246.12	14.94	5.81	586.48	16.43	0.32	-133.0
MW-7	4.0	20.0 - 40.0	280.12	260.12	240.12	9/23/23	No EOS	28.61	40.11	34.50	0.00	251.51	240.01	245.62	15.74	5.98	641.05	16.23	0.24	-116.4
MW-7	4.0	20.0 - 40.0	280.12	260.12	240.12	11/30/23	No EOS	29.22	40.05	34.00	0.00	250.90	240.07	246.12	11.71	6.23	521.92	77.59	0.00	45.3
MW-9	2.0	20.0 - 40.0	279.00	259.00	239.00	9/30/21	No EOS	28.15	38.55	33.35	0.00	250.85	240.45	245.65	14.75	6.48	465.65	201.67	4.85	148.6
MW-9	2.0	20.0 - 40.0	279.00	259.00	239.00	3/10/23	No EOS	27.00	38.94	33.00	0.00	252.00	240.06	246.00	12.48	6.41	523.82	30.13	4.92	227.6
MW-9	2.0	20.0 - 40.0	279.00	259.00	239.00	6/17/23	No EOS	26.62	38.81	33.00	0.00	252.38	240.19	246.00	15.07	6.93	465.53	100.56	9.24	120.6

Table 2. Monitoring Well Gauging and Low-Flow Stabilization Parameters

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Monitoring Well Construction Information					Gauging Data									Low Flow Stabilization Parameters					
	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)								
			Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake	Temp (C)	pH	Conductivity (uS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-9	2.0	20.0 - 40.0	279.00	259.00	239.00	9/23/23	No EOS	27.92	38.55	33.50	0.00	251.08	240.45	245.50	14.69	6.66	484.86	56.14	7.25	132.8
MW-9	2.0	20.0 - 40.0	279.00	259.00	239.00	11/30/23	No EOS	28.35	38.55	34.00	0.00	250.65	240.45	245.00	13.17	6.46	516.60	44.64	6.12	151.0
MW-11	2.0	20.0 - 40.0	281.45	261.45	241.45	9/30/21	NM	30.32	39.98	35.15	0.00	251.13	241.47	246.30	14.83	6.52	393.36	44.25	4.86	161.6
MW-11	2.0	20.0 - 40.0	281.45	261.45	241.45	3/10/23	NM	29.24	40.00	35.00	0.00	252.21	241.45	246.45	missing file not found					
MW-11	2.0	20.0 - 40.0	281.45	261.45	241.45	6/17/23	NM	28.80	40.35	34.50	0.00	252.65	241.10	246.95	15.00	6.45	376.50	3.68	4.73	19.0
MW-11	2.0	20.0 - 40.0	281.45	261.45	241.45	9/23/23	NM	30.05	40.36	35.00	0.00	251.40	241.09	246.45	15.16	6.44	349.20	5.12	5.40	-6.6
MW-11	2.0	20.0 - 40.0	281.45	261.45	241.45	11/30/23	NM	30.65	40.05	35.00	0.00	250.80	241.40	246.45	13.99	6.61	357.10	0.49	5.65	157.8
MW-13	2.0	20.0 - 35.0	276.51	256.51	241.51	9/30/21	No EOS	25.29	34.59	29.95	0.00	251.22	241.92	246.56	14.21	6.10	120.51	42.49	8.09	178.4
MW-13	2.0	20.0 - 35.0	276.51	256.51	241.51	3/10/23	No EOS	24.27	34.60	29.50	0.00	252.24	241.91	247.01	10.46	6.10	113.17	84.14	8.83	358.2
MW-13	2.0	20.0 - 35.0	276.51	256.51	241.51	6/17/23	No EOS	23.67	34.84	29.00	0.00	252.84	241.67	247.51	13.44	5.89	115.11	61.08	11.35	201.1
MW-13	2.0	20.0 - 35.0	276.51	256.51	241.51	9/23/23	No EOS	24.84	34.85	30.00	0.00	251.67	241.66	246.51	14.65	6.02	125.25	8.25	8.66	115.4
MW-13	2.0	20.0 - 35.0	276.51	256.51	241.51	11/30/23	No EOS	25.51	34.70	30.00	0.00	251.00	241.81	246.51	11.92	6.23	113.17	8.89	9.06	209.5
MW-15	2.0	23.0 - 38.0	281.92	258.92	243.92	9/30/21	NM	31.16	37.78	34.47	0.00	250.76	244.14	247.45	15.35	6.21	462.64	76.40	1.03	152.1
MW-15	2.0	23.0 - 38.0	281.92	258.92	243.92	3/10/23	NM	28.97	38.22	34.50	0.00	252.95	243.70	247.42	12.88	6.53	461.81	37.88	0.86	199.6
MW-15	2.0	23.0 - 38.0	281.92	258.92	243.92	6/17/23	NM	29.58	38.45	34.00	0.00	252.34	243.47	247.92	14.60	6.31	450.54	9.09	0.23	30.4
MW-15	2.0	23.0 - 38.0	281.92	258.92	243.92	9/23/23	NM	30.90	38.50	35.00	0.00	251.02	243.42	246.92	14.82	6.36	468.03	13.41	0.75	52.4
MW-15	2.0	23.0 - 38.0	281.92	258.92	243.92	11/30/23	NM	31.35	38.50	35.00	0.00	250.57	243.42	246.92	12.63	6.60	436.90	51.73	0.92	161.9
MW-15D	2.0	55.0 - 60.0	282.26	227.26	222.26	9/30/21	No EOS	31.17	59.76	52.50	0.00	251.09	222.50	229.76	14.95	6.64	244.19	0.51	2.39	148.8
MW-15D	2.0	55.0 - 60.0	282.26	227.26	222.26	3/10/23	No EOS	30.20	59.61	53.50	0.00	252.06	222.65	228.76	13.09	6.68	486.31	17.68	5.50	318.1
MW-15D	2.0	55.0 - 60.0	282.26	227.26	222.26	6/17/23	No EOS	29.86	60.10	55.00	0.00	252.40	222.16	227.26	13.96	6.49	379.49	7.86	5.11	139.5
MW-15D	2.0	55.0 - 60.0	282.26	227.26	222.26	9/23/23	No EOS	31.20	60.10	52.50	0.00	251.06	222.16	229.76	14.58	6.58	379.99	10.47	5.43	133.0
MW-15D	2.0	55.0 - 60.0	282.26	227.26	222.26	11/30/23	No EOS	31.61	60.10	52.00	0.00	250.65	222.16	230.26	13.19	6.85	341.22	21.62	5.28	179.6
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	9/30/21	No EOS	30.21	33.71	31.95	0.00	250.88	247.38	249.14	17.41	6.26	463.15	1,119.1	1.10	138.0
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	3/10/23	No EOS	29.00	33.69	29.00	0.00	252.09	247.40	252.09	missing file not found					
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	6/17/23	No EOS	28.65	33.90	31.50	0.00	252.44	247.19	249.59	15.09	6.19	428.94	0.94	0.76	82.0
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	9/23/23	No EOS	29.95	34.00	32.00	0.00	251.14	247.09	249.09	16.95	6.23	480.06	0.00	1.51	117.0
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	11/30/23	No EOS	30.41	33.90	NA	0.00	250.68	247.19	NA	bailed well due to insufficient water column height					
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	9/30/21	NM	28.46	29.23	28.85	0.00	251.11	250.34	250.72	15.69	6.37	413.15	529.98	2.31	155.1
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	3/10/23	NM	27.38	29.29	28.00	0.00	252.19	250.28	251.57	13.22	6.33	390.06	7.96	1.71	289.4
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	6/17/23	NM	26.87	29.41	28.50	0.00	252.70	250.16	251.07	14.62	6.20	392.06	0.74	2.74	119.1
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	9/23/23	NM	28.20	29.41	NA	0.00	251.37	250.16	NA	bailed well due to insufficient water column height					
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	11/30/23	NM	28.72	29.40	NA	0.00	250.85	250.17	NA	bailed well due to insufficient water column height					

Notes:
1. NM = Not Measured

Table 3. Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Chloroform	Methylene Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	67-66-3	75-09-2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2	--	5.0
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.54	--	--	0.029	1.4	5.8
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24	80	48
MW-1	10/2/21	Low-Flow	245.80	USEPA Method 8260	512	73.4	1,960	<10.0	6.5		
MW-1	3/14/23	Low-Flow	246.37	EPA 8260D	474	42.2	1,920	<10.0		11.8	
MW-1 DUP	3/14/23	Low-Flow	246.37	EPA 8260D	450	46.0	1,960	2.1	9.8		
MW-1	6/19/23	Low-Flow	246.87	EPA 8260D	340	26.3	1,150	<10.0	<10.0		14.0
MW-1 DUP	6/19/23	Low-Flow	246.87	EPA 8260D	329	26.1	1,210	<10.0	<10.0		
MW-1	9/25/23	Low-Flow	245.37	EPA 8260D	339	18.8	596	<10.0	<10.0		
MW-1 DUP	9/25/23	Low-Flow	245.37	EPA 8260D	333	18.3	602	<10.0	<10.0		
MW-1	12/2/23	Low-Flow	245.87	EPA 8260D	267	15.3	542	<10.0	<10.0		
MW-1 DUP	12/2/23	Low-Flow	245.87	EPA 8260D	275	13.4	567	<10.0	<10.0		
MW-2R	10/2/21	Low-Flow	NA	USEPA Method 8260	243	15.0	2.9	<1.0	<0.20		
MW-2R (FD1)	10/2/21	Low-Flow	NA	USEPA Method 8260	313	13.5	2.9	<1.0	<0.20		
MW-2R	3/13/23	Low-Flow	246.45	EPA 8260D	237	11.8	7.3	<1.0	<1.0		
MW-2R	6/18/23	Low-Flow	246.95	EPA 8260D	177	8.5	6.3	<1.0	<1.0		
MW-2R	9/24/23	Low-Flow	245.95	EPA 8260D	144	5.6	3.9	<1.0	<1.0		
MW-2R	12/2/23	Low-Flow	244.95	EPA 8260D	140	7.1	4.1	<2.0	<2.0		
MW-3R	10/2/21	Low-Flow	NA	USEPA Method 8260	191	2.5	<1.0	<1.0	<0.20		
MW-3R	10/5/21	Bailer	NA	USEPA Method 8260	169	2.0	<1.0	<1.0	<0.20		
MW-3R	3/13/23	Low-Flow	251.59	EPA 8260D	195	2.6	<1.0	<1.0	<1.0		
MW-3R	6/18/23	Low-Flow	251.09	EPA 8260D	203	2.7	<1.0	<1.0	<1.0		
MW-3R	9/24/23	Bailer	NA	EPA 8260D	159	2.3	<1.0	<1.0	<1.0		
MW-3R	12/2/23	Bailer	NA	EPA 8260D	116	1.5	<1.0	<1.0	<1.0		
MW-4	10/1/21	Low-Flow	245.30	USEPA Method 8260	2.8	<0.40	<1.0	<1.0	<0.20		
MW-4	3/11/23	Low-Flow	245.43	EPA 8260D	5.0	<1.0	<1.0	<1.0	<1.0		
MW-4	6/17/23	Low-Flow	244.93	EPA 8260D	4.7	<1.0	<1.0	<1.0	<1.0		
MW-4	9/23/23	Low-Flow	246.43	EPA 8260D	4.2	<1.0	<1.0	<1.0	<1.0		
MW-4	12/1/23	Low-Flow	245.93	EPA 8260D	4.2	<1.0	<1.0	<1.0	<1.0		
MW-5	10/1/21	Low-Flow	243.96	USEPA Method 8260	24.0	0.59	<1.0	<1.0	<0.20		
MW-5	3/12/23	Low-Flow	244.00	EPA 8260D	41.4	<1.0	<1.0	<1.0	<1.0		
MW-5	6/18/23	Low-Flow	244.00	EPA 8260D	47.2	<1.0	<1.0	<1.0	<1.0		
MW-5	9/24/23	Low-Flow	244.00	EPA 8260D	70.5	1.1	<1.0	<1.0	<1.0		
MW-5	12/1/23	Low-Flow	245.00	EPA 8260D	62.0	1.1	<1.0	<1.0	<1.0		
MW-6	10/1/21	Low-Flow	255.47	USEPA Method 8260	49.0	<0.40	<1.0	<1.0	<0.20		

Table 3. Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Chloroform	Methylene Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	67-66-3	75-09-2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2	--	5.0
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.54	--	--	0.029	1.4	5.8
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24	80	48
MW-6	3/12/23	Low-Flow	246.41	EPA 8260D	97.0	<1.0	<1.0	<1.0	<1.0		
MW-6	6/18/23	Low-Flow	246.41	EPA 8260D	82.8	<1.0	<1.0	<1.0	<1.0		
MW-6	9/24/23	Low-Flow	244.91	EPA 8260D	73.0	<1.0	<1.0	<1.0	<1.0		
MW-6	12/2/23	Low-Flow	245.41	EPA 8260D	98.5	<1.0	<1.0	<1.0	<1.0		
MW-7	10/3/21	Low-Flow	245.42	USEPA Method 8260	296	14.8	337	<1.0	1.8		
MW-7	3/13/23	Low-Flow	246.62	EPA 8260D	15.0	126	462	<5.0	<5.0		
MW-7	6/19/23	Low-Flow	246.12	EPA 8260D	3.3	5.4	286	<1.0	2.5		
MW-7	9/25/23	Low-Flow	245.62	EPA 8260D	2.5	<1.0	215	<1.0	2.1		
MW-7	12/2/23	Low-Flow	246.12	EPA 8260D	2.3	<2.0	195	<2.0	<2.0		
MW-9	10/1/21	Low-Flow	245.65	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.20		
MW-9	3/10/23	Low-Flow	246.00	EPA 8260D	1.5	<1.0	<1.0	<1.0	<1.0		
MW-9	6/17/23	Low-Flow	246.00	EPA 8260D	<1.0	<1.0	<1.0	<1.0	<1.0		
MW-9	9/23/23	Low-Flow	245.50	EPA 8260D	<1.0	<1.0	<1.0	<1.0	<1.0		
MW-9	12/1/23	Low-Flow	245.00	EPA 8260D	1.2	<1.0	<1.0	<1.0	<1.0		
MW-11	10/2/21	Low-Flow	246.30	USEPA Method 8260	354	26.8	33.5	<2.0	<0.40		
MW-11	3/14/23	Low-Flow	246.45	EPA 8260D	481	20.3	34.2	<5.0	<5.0		
MW-11	6/19/23	Low-Flow	246.95	EPA 8260D	235	11.6	28.1	<1.0	<1.0		
MW-11	9/25/23	Low-Flow	246.45	EPA 8260D	308	14.2	37.7	<1.0	<1.0		
MW-11	12/2/23	Low-Flow	246.45	EPA 8260D	407	18.7	62.0	<5.0	<5.0		
MW-13	10/2/21	Low-Flow	246.56	USEPA Method 8260	26.7	<0.40	<1.0	<1.0	<0.20		
MW-13	3/11/23	Low-Flow	247.01	EPA 8260D	37.2	<1.0	<1.0	<1.0	<1.0		
MW-13	6/18/23	Low-Flow	247.51	EPA 8260D	38.4	<1.0	<1.0	<1.0	<1.0		
MW-13	9/24/23	Low-Flow	246.51	EPA 8260D	33.7	<1.0	<1.0	<1.0	<1.0		
MW-13	12/1/23	Low-Flow	246.51	EPA 8260D	35.2	<1.0	<1.0	<1.0	<1.0		
MW-15	10/1/21	Low-Flow	247.45	USEPA Method 8260	499	10.6	<1.0	<1.0	<0.20		
MW-15	3/14/23	Low-Flow	247.42	EPA 8260D	966	21.7	2.7	<1.0	<1.0		
MW-15	6/19/23	Low-Flow	247.92	EPA 8260D	646	14.4	1.7	<1.0	<1.0		
MW-15	9/25/23	Low-Flow	246.92	EPA 8260D	719	15.8	3.6	<1.0	<1.0		
MW-15	12/2/23	Low-Flow	246.92	EPA 8260D	704	14.7	<10.0	<10.0	<10.0		
MW-15D	10/1/21	Low-Flow	229.78	USEPA Method 8260	15.3	0.70	<1.0	<1.0	<0.20		
MW-15D	3/11/23	Low-Flow	228.76	EPA 8260D	17.7	2.6	<1.0	<1.0	<1.0		

Table 3. Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Chloroform	Methylene Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	67-66-3	75-09-2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2	--	5.0
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.54	--	--	0.029	1.4	5.8
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24	80	48
MW-15D	6/18/23	Low-Flow	227.26	EPA 8260D	19.2	2.6	<1.0	<1.0	<1.0		
MW-15D	9/24/23	Low-Flow	229.76	EPA 8260D	13.1	1.9	<1.0	<1.0	<1.0		
MW-15D	12/1/23	Low-Flow	230.26	EPA 8260D	14.0	1.9	<1.0	<1.0	<1.0		
MW-23	10/1/21	Low-Flow	249.14	USEPA Method 8260	197	11.4	29.7	<1.0	<0.20		
MW-23	3/13/23	Low-Flow	252.09	EPA 8260D	196	11.8	39.8	<1.0	<1.0		
MW-23	6/18/23	Low-Flow	249.59	EPA 8260D	190	9.2	28.4	<1.0	<1.0		
MW-23	9/24/23	Low-Flow	249.09	EPA 8260D	181	12.0	38.9	<1.0	<1.0		
MW-23	12/2/23	Bailer	NA	EPA 8260D	279	17.1	57.5	<2.0	<2.0		
MW-101	10/2/21	Low-Flow	250.72	USEPA Method 8260	144	7.5	20.4	<1.0	<0.20		
MW-101	3/12/23	Low-Flow	250.28	EPA 8260D	155	6.6	25.5	<1.0	<1.0		
MW-101	6/18/23	Low-Flow	251.07	EPA 8260D	141	6.1	19.6	<1.0	<1.0		
MW-101	9/24/23	Bailer	NA	EPA 8260D	124	6.1	15.7	<1.0	<1.0		
MW-101	12/1/23	Bailer	NA	EPA 8260D	110	5.8	13.3	<2.0	<2.0		

Notes:

1. Analytical results are presented in micrograms per liter (ug/L).
2. All results for cVOCs are listed. Other VOCs listed represent those that were detected above the applicable MTCA CL.
3. The applicable MTCA CLs are Method A CLs unless Method B CLs are not listed. Where Method A CLs are not listed, Method B CLs are applicable.
4. A bold font style and blue shading indicates that the concentration exceeds the applicable MTCA Cleanup Level.
5. NA = Not Applicable

Table 4. Emulsified Oil Substrate Thicknesses & Recovery Tracking

Former Cherry Cleaners
2510 E Cherry St, Seattle, WA 98122
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Well Construction Information			Q4 13	Q2 14	Q3 14	Q4 16	Q1 17	Q2 17	Q3 17	Q4 17	Q1 18	Q2 18	Q1 20	Q2 21	Q4 21	Q1 22	Q2 23	Q3 23	Q4 23	Cumulative Total (gallons)
	Well Diameter (in)	Depth to Top of Screen (ft bgs)	Depth to Bottom of Screen (ft bgs)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	EOS Thickness (ft)	
IW-02	4.0	20.0	40.0	NA	NA	NA	NM	0.05	<0.01	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-03	4.0	20.0	40.0	NA	NA	NA	NM	NM	<0.01	0.20	NM	0.20	NM	0.25	0.00	0.00	0.00	0.00	0.00	0.00	
IW-04	4.0	20.0	40.0	NA	NA	NA	NM	NM	0.20	0.08	NM	NM	NM	0.14	0.00	0.00	0.00	0.00	0.00	0.00	
IW-05	4.0	20.0	40.0	NA	NA	NA	NM	NM	0.20	0.10	NM	0.60	NM	0.20	0.00	0.00	0.00	0.00	0.00	0.00	
IW-06	4.0	20.0	40.0	NA	NA	NA	NM	NM	0.10	0.00	NM	0.10	NM	0.22	0.00	0.00	0.00	0.00	0.00	0.00	
IW-07	4.0	20.0	40.0	NA	NA	NA	NM	NM	<0.01	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-08	4.0	20.0	40.0	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
IW-09	4.0	20.0	40.0	NA	NA	NA	NM	0.01	0.01	0.01	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-10	4.0	20.0	40.0	NA	NA	NA	NM	0.01	<0.01	0.00	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-11	4.0	20.0	40.0	NA	NA	NA	NM	0.35	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-12	4.0	20.0	40.0	NA	NA	NA	1.00	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-13	4.0	20.0	40.0	NA	NA	NA	<0.01	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-14	4.0	20.0	40.0	NA	NA	NA	4.00	<0.01	0.02	<0.01	NM	0.05	NM	0.12	0.00	0.00	0.00	0.00	0.00	0.00	
IW-15	4.0	20.0	40.0	NA	NA	NA	2.00	0.00	0.00	0.03	NM	0.01	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-16	4.0	20.0	40.0	NA	NA	NA	2.00	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-17	4.0	20.0	40.0	NA	NA	NA	NM	0.00	0.00	<0.01	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-18	4.0	20.0	40.0	NA	NA	NA	NM	0.02	0.02	<0.01	NM	0.01	NM	0.12	0.00	0.00	0.00	0.00	0.00	0.00	
IW-19	4.0	18.5	38.5	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-20	4.0	18.5	38.5	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-21	4.0	17.5	37.5	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-22	4.0	17.0	37.0	NA	NA	NA	NM	<0.01	0.00	0.00	NM	0.01	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-23	4.0	16.5	36.5	NA	NA	NA	1.50	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-24	4.0	15.0	35.0	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-25	4.0	15.0	35.0	NA	NA	NA	1.50	0.01	0.01	<0.01	NM	0.02	NM	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
IW-26	4.0	15.0	35.0	NA	NA	NA	0.00	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IW-27	4.0	20.0	40.0	NA	NA	NA	NM	3+	1.30	0.30	NM	0.75	NM	0.80	0.03	0.00	0.00	0.00	0.00	0.00	
IW-28	4.0	20.0	40.0	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MW-1	2.0	22.0	40.6	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MW-2	4.0	20.0	40.0	NA	NA	NA	NM	NM	NM	NM	NM	0.00	NM	0.00	0.00	--	--	--	--	--	
MW-2R	4.0	20.0	40.0	--	--	--	--	--	--	--	--	--	--	--	--	0.00	0.00	0.00	0.00	0.00	
MW-3	4.0	20.0	30.0	NA	NA	NA	NM	3+	3+	0.40	NM	0.20	NM	0.00	2.51	--	--	--	--	--	
MW-3R	4.0	20.0	40.0	--	--	--	--	--	--	--	--	--	--	--	--	0.00	0.00	0.00	0.00	0.00	
MW-7	4.0	20.0	40.0	NA	NA	NA	NM	0.00	0.00	0.00	NM	0.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Estimated Volume of Oil/Water Removed (gallons)				75	75	120	125	250	75	75	0.0	30	0.0	25	25	32	0.0	0.0	0.0	0.0	907
Estimated Volume of Oil Removed (gallons)				75	75	120	25	50	15	15	0.0	6.0	0.0	10	12	0.0	0.0	0.0	0.0	0.0	403

- Notes:
1. NM = Not Measured
 2. NA = Not Available
 3. Bold front and yellow shading indicates vacuum was applied to the well to skim EOS from the surface of the water.
 4. Although no EOS was dected in Q4 2021, vacuum was applied to skim the groundwater surface at 14 well.

Table 5. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results (720 25th Ave)

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Building Location	Area / Building Floor	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon Tetrachloride	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")											127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3
2023 Indoor Air Cleanup Level, Method B											9.62	0.334	18.3	18.3	0.284	0.321	0.417	0.109
2023 Indoor Air Cleanup Level, Method C											40	2	40	40	2.84	3.21	4.17	1.09
2023 Sub-Slab Soil Gas Screening Level, Method B											320	11	610	610	9.5	11	14	3.6
2023 Sub-Slab Soil Gas Screening Level, Method C											1,300	67	1,300	1,300	95	110	140	36
North-West	Basement	IA-14	IA-14 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-28.0	-11.0	TO-15 SIM	<0.23	<0.18	<0.14	<0.68	<0.044	1.2	NT	NT
	Second Floor	IA-15	IA-15:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042	0.36	NT	NT
	First Floor	IA-11	IA-11:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040	0.31	NT	NT
	Basement	IA-8	IA-8:A110713	11/07/13	Indoor Air	6L Summa	8.0	-29.5	-5.5	TO-15 SIM	<0.23	<0.18	<0.13	<0.66	<0.043	0.36	NT	NT
	Basement	SS-8	SS-8:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-7.0	TO-15 SIM	1.9	<0.17	<0.12	<0.61	0.083		NT	NT
	Second Floor	IA-15	IA-15:A031617	03/16/17	Indoor Air	6L Summa	8.1	-35.0	-6.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77	1.2		
	First Floor	IA-11	IA-11:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77			
	Basement	IA-8	IA-8:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77			
North-Central	Basement	SS-8	SS-8:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-5.0	TO-15	4.3	<0.85	<1.3	<1.3	<0.81			
	Basement	IA-16	IA-16 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-27.5	-5.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.66	<0.042	1.2	NT	NT
	Basement	IA-15	IA-15 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa		-28.5	-8.0	TO-15 SIM	0.41	<0.21	<0.16	<0.79	<0.051	1.3	NT	NT
	Second Floor	IA-14	IA-14:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042	0.33	NT	NT
	First Floor	IA-10	IA-10:A110713	11/07/13	Indoor Air	6L Summa	8.0	-29.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040	0.29	NT	NT
	Basement	IA-9	IA-9:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-7.0	TO-15 SIM	<0.23	<0.18	<0.13	<0.67	<0.043	0.44	NT	NT
	Basement	SS-9	SS-9:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-5.5	TO-15 SIM	4.4	<0.17	<0.13	<0.63	0.11	0.47	NT	NT
	Second Floor	IA-14	IA-14:A031617	03/16/17	Indoor Air	6L Summa	8.1	-26.0	-4.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.81			
	First Floor	IA-10	IA-10:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77			
	Basement	IA-9	IA-9:A031617	03/16/17	Indoor Air	6L Summa	8.0	-26.5	-4.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.81			
	Basement	SS-9	SS-9:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-6.5	TO-15	4.1	<0.85	<1.3	<1.3	<0.81			5.0
	First Floor	IA-7	IA-7:A110713	11/07/13	Indoor Air	6L Summa	8.1	-30+	-6.5	TO-15	<0.21	<0.17	<0.12	<0.62	<0.040	0.34		
Center	First Floor	SS-7	SS-7:A110713	11/07/13	Sub-slab	6L Summa	8.1	-30.0	-5.5	TO-15	0.22	<0.16	<0.12	<0.61	<0.039			
	First Floor	IA-7	IA-7:A031617	03/16/17	Indoor Air	6L Summa	8.1	-30+	-4.0	TO-15	<0.99	<0.79	<1.2	<1.2	<0.75			
	First Floor	SS-7	SS-7:A031617	03/16/17	Sub-slab	6L Summa	8.1	-30+	-7.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.81			
	First Floor	IA-6	IA-6:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.16	<0.12	<0.61	<0.039	0.37	NT	NT
	First Floor	SS-6	SS-6:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040		NT	NT
Central-South																		
	First Floor	IA-6	IA-6:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-7.5	TO-15	<0.92	<0.74	<1.1	<1.1	<0.70			
	First Floor	SS-6	SS-6:A031617	03/16/17	Sub-slab	6L Summa	8.1	-30.0	-6.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40	0.55		
	First Floor	IA-4	IA-4:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040	0.63	NT	NT
	First Floor	IA-5	IA-5:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	<0.21	<0.17	<0.12	<0.63	<0.040	0.39	NT	NT
	First Floor	SS-4	SS-4:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	0.73	<0.17	<0.12	<0.62	<0.040		NT	NT
	First Floor	SS-5	SS-5:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	0.29	<0.17	<0.12	<0.62	0.072		NT	NT
	First Floor	IA-4	IA-4:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-6.0	TO-15	<2.1	<0.82	<1.2	<1.2	<0.39			
Central-South	First Floor	IA-5	IA-5:A031617	03/16/17	Indoor Air	6L Summa	8.1	-30.0	-5.5	TO-15	<2.1	<0.82	<1.2	<1.2	<0.39			
	First Floor	SS-4	SS-4:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-5.0	TO-15	1.2	<0.82	<1.2	<1.2	<0.39	0.69		
	First Floor	SS-5	SS-5:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-6.0	TO-15	<1.8	<0.74	<1.1	<1.1	<0.35	0.55		

Table 5. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results (720 25th Ave)

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Building Location	Area / Building Floor	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon Tetrachloride	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")											127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3
2023 Indoor Air Cleanup Level, Method B											9.62	0.334	18.3	18.3	0.284	0.321	0.417	0.109
2023 Indoor Air Cleanup Level, Method C											40	2	40	40	2.84	3.21	4.17	1.09
2023 Sub-Slab Soil Gas Screening Level, Method B											320	11	610	610	9.5	11	14	3.6
2023 Sub-Slab Soil Gas Screening Level, Method C											1,300	67	1,300	1,300	95	110	140	36
South-West	Basement	IA-17	IA-17 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-20.0	-7.0	TO-15 SIM	0.57	<0.18	<0.13	<0.67	<0.043	1.2	NT	NT
	Basement	IA-13	IA-13 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-29.0	-8.0	TO-15 SIM	0.81	<0.20	<0.14	<0.72	<0.047	1.3	NT	NT
	Basement	SV-23	SV-23 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-28.5	-7.0	TO-15 SIM	230	<0.19	<0.14	<0.71	<0.046		NT	NT
	Basement	SV-24	SV-24 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-28.0	-11.0	TO-15 SIM	300	<0.26	<0.19	<0.96	<0.062	0.51	NT	NT
	Second Floor	IA-17	IA-17:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	4.8	3.2	<0.10	<0.52	<0.033	0.48	NT	NT
	First Floor	IA-13	IA-13:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	0.65	<0.17	<0.12	<0.62	<0.040	0.32	NT	NT
	Basement	IA-3	IA-3:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042	0.31	NT	NT
	Basement	SS-3	SS-3:A110713	11/07/13	Sub-slab	6L Summa	8.0	-27.0	-13.5	TO-15 SIM	4.1	<0.24	<0.18	<0.88	0.49	0.95	NT	NT
	Second Floor	IA-17	IA-17:A031617	03/16/17	Indoor Air	6L Summa	7.7	-30.0	-6.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40	0.62		
	First Floor	IA-13	IA-13:A031617	03/16/17	Indoor Air	6L Summa	8.2	-30.0	-4.0	TO-15	<2.3	<0.92	<1.4	<1.4	<0.44			
	Basement	IA-3	IA-3:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30.0	-4.0	TO-15	1.0	<0.79	<1.2	<1.2	<0.37			
	Basement	SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port							
	Second Floor	IA-17	IA-17:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-2.0	TO-15	0.16	0.089	<0.056	<0.056	<0.036	0.77	0.63	0.28
	First Floor	IA-13	IA-13:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-2.0	TO-15	0.13	0.13	<0.058	<0.058	<0.037	0.75	0.58	2.0
	Basement	IA-3	IA-3:A022818	02/28/18	Indoor Air	6L Summa	8.0	-28.0	-3.0	TO-15	0.22	0.11	<0.062	<0.062	<0.040	0.76	0.45	0.15
	Basement	SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port							
	Second Floor	IA-17	IA-17:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.5	-15.0	TO-15	<0.16	<0.13	<0.093	<0.093	<0.060	0.54	0.25	0.49
	First Floor	IA-13	IA-13:A012720	01/27/20	Indoor Air	6L Summa	8.0	-28.0	-6.0	TO-15	<0.12	<0.093	<0.069	<0.069	<0.044	0.53	0.56	1.6
	Basement	IA-3	IA-3:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-10.0	TO-15	<0.12	<0.096	<0.071	<0.071	<0.046	0.63	0.88	0.30
	Basement	SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port							
	Second Floor	IA17	IA17:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.64	<0.074	<0.11	0.39	<0.035	0.80	0.41	0.64
	First Floor	IA13	IA13:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.49	<0.083	<0.12	<0.12	<0.040	0.91	0.22	0.76
	Basement	IA3	IA3:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-3.0	TO-15	0.25	<0.080	<0.12	<0.12	<0.038	0.77	0.26	0.16
	Basement	SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port							
	Second Floor	IA17	IA17:A031523	03/15/23	Indoor Air	6L Summa	8.0	-25.5	-3.5	TO-15 SIM	<0.17	<0.13	<0.098	<0.49	<0.032	0.38	0.42	0.44
	First Floor	IA13	IA13:A031523	03/15/23	Indoor Air	6L Summa	8.0	-27.5	-5.5	TO-15 SIM	<0.17	<0.14	<0.10	<0.51	<0.033	0.35	0.42	0.51
	Basement	IA3	IA3:A031523	03/15/23	Indoor Air	6L Summa	8.0	-27.5	-5.5	TO-15 SIM	<0.18	<0.14	<0.10	<0.52	<0.033	0.34	0.41	0.20
	Basement	SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port							
South-Central	Basement	SV-21	SV-21 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-29.0	-8.0	TO-15 SIM	210	1.4	<0.15	<0.75	<0.048	28	NT	NT
	Basement	SV-22	SV-22 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-29.5	-7.0	TO-15 SIM	240	<0.20	<0.14	<0.72	<0.047		NT	NT
	Second Floor	IA-16	IA-16:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040	0.38	NT	NT
	First Floor	IA-12	IA-12:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040	0.28	NT	NT
	Basement	IA-2	IA-2:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.5	TO-15 SIM	0.36	0.17	<0.12	<0.62	<0.040	0.31	NT	NT
	Basement	SS-2	SS-2:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	82	<0.17	<0.12	<0.62	0.10	0.33	NT	NT
	Second Floor	IA-16	IA-16:A031617	03/16/17	Indoor Air	6L Summa	8.1	-30+	-6.0	TO-15	22.5	220	<1.3	<1.3	<0.40	0.62		
	First Floor	IA-12	IA-12:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-5.0	TO-15	<2.2	<0.89	<1.3	<1.3	<0.42			
	Basement	IA-2	IA-2:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-5.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40			
	Basement	IA-2	FD:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.40	0.55		
	Basement	SS-2	SS-2:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30.0	-5.5	TO-15	445	<0.89	<1.3	<1.3	<0.42	0.63	220	2.6

Table 5. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results (720 25th Ave)

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Building Location	Area / Building Floor	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon Tetrachloride	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")											127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3
2023 Indoor Air Cleanup Level, Method B											9.62	0.334	18.3	18.3	0.284	0.321	0.417	0.109
2023 Indoor Air Cleanup Level, Method C											40	2	40	40	2.84	3.21	4.17	1.09
2023 Sub-Slab Soil Gas Screening Level, Method B											320	11	610	610	9.5	11	14	3.6
2023 Sub-Slab Soil Gas Screening Level, Method C											1,300	67	1,300	1,300	95	110	140	36
South-Central	Second Floor	IA-16	IA-16:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-3.0	TO-15	0.13	<0.079	<0.058	<0.058	<0.037	0.73	0.61	0.23
	Second Floor	IA-16	Dup720:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.13	0.086	<0.056	<0.056	<0.036	0.72	0.61	0.22
	First Floor	IA-12	IA-12:A022818	02/28/18	Indoor Air	6L Summa	8.0	-29.0	-10.0	TO-15	0.23	0.23	<0.074	<0.074	<0.048	0.73	0.62	0.18
	Basement	IA-2	IA-2:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-4.0	TO-15	0.29	0.20	<0.062	<0.062	<0.040	0.77	0.61	0.22
	Basement	SS-2	SS-2:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30.0	-2.0	TO-15	442	0.26	<0.058	<0.058	<0.037	0.24	205	2.0
	Second Floor	IA-16	IA-16:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-4.0	TO-15	0.20	<0.081	<0.060	<0.060	<0.039	0.50	0.56	0.44
	Second Floor	IA-16	DuplicateIA:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.91	<0.085	<0.062	0.11	<0.040	0.60	0.48	0.46
	First Floor	IA-12	IA-12:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.13	<0.085	<0.062	<0.062	<0.040	0.66	0.56	0.31
	Basement	IA-2	IA-2:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.71	<0.088	<0.065	<0.065	<0.042	0.57	0.50	1.1
	Basement	SS-2	SS-2:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30.0	-9.5	TO-15	412	0.48	<0.068	0.070	<0.044	0.66	119	2.3
	Second Floor	IA16	IA16:A011322	01/13/22	Indoor Air	6L Summa	7.0	-30.0	-5.0	TO-15	0.72	<0.085	<0.12	<0.12	<0.040	0.77		0.58
	Second Floor	IA16	FD:A011322	01/13/22	Indoor Air	6L Summa	8.0	-29.0	-3.0	TO-15	0.73	<0.080	<0.12	<0.12	<0.038	0.69		0.68
	First Floor	IA12	IA12:A011322	01/13/22	Indoor Air	6L Summa	8.0	-28.0	-3.0	TO-15	0.47	<0.080	<0.12	<0.12	<0.038	0.69	0.36	0.42
	Basement	IA2	IA2:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-3.0	TO-15	4.3	<0.079	<0.12	<0.12	<0.037	0.77	0.43	0.15
	Basement	SS2	SS2:A011322	01/13/22	Sub-slab	6L Summa	8.0	-30.0	-5.0	TO-15	217	0.18	<0.12	<0.12	<0.038	0.43	179	1.7
	Second Floor	IA16	IA16:A031523	03/15/23	Indoor Air	6L Summa	8.0	-28.0	-2.5	TO-15 SIM	<0.17	<0.13	<0.098	<0.49	<0.031	0.38	0.40	0.51
	Second Floor	IA16	FD:A031523	03/15/23	Indoor Air	6L Summa	8.0	-28.0	-2.5	TO-15 SIM	<0.17	<0.13	<0.098	<0.49	<0.031	0.38	0.40	0.49
	First Floor	IA12	IA12:A031523	03/15/23	Indoor Air	6L Summa	8.0	-28.0	-2.5	TO-15 SIM	<0.17	<0.13	<0.099	<0.50	<0.032	0.34	0.39	0.17
	Basement	IA2	IA2:A031523	03/15/23	Indoor Air	6L Summa	8.0	-29.0	-4.0	TO-15 SIM	0.69	<0.14	<0.10	<0.50	<0.032	0.34	0.41	0.20
	Basement	SS2	SS2:A031523	03/15/23	Sub-slab	6L Summa	8.0	-28.0	-3.5	TO-15 SIM	16	<0.14	<0.10	<0.51	<0.033	0.33	150	1.4
South-East	Basement	SV-20	SV-20 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-30.0	-8.0	TO-15 SIM	67	<0.19	<0.14	<0.71	<0.046		NT	NT
	Basement	SV-25	SV-25 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-27.0	-7.0	TO-15 SIM	75	1.7	<0.14	<0.70	<0.046	30	NT	NT
	Outdoor Soil Gas	SB-11	SB-11	02/22/12	Soil Gas						27,600	<553	<814		<261	<327		
	Basement	IA-1	IA-1:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.5	TO-15 SIM	0.38	<0.17	<0.12	<0.62	<0.040	0.32	NT	NT
	Basement	SS-1	SS-1:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-4.5	TO-15 SIM	26	<0.17	<0.13	<0.63	<0.041		NT	NT
	Basement	IA-1	IA-1:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40			
	Basement	SS-1	SS-1:A031617	03/16/17	Sub-slab	6L Summa	8.0	-28.0	-4.0	TO-15	62.7	<0.85	<1.3	<1.3	<0.40	0.58		
	Basement	IA-1	IA-1:A022818	02/28/18	Indoor Air	6L Summa	8.0	-29.0	-3.0	TO-15	0.31	<0.079	<0.058	<0.058	<0.037	1.1	0.52	0.44
	Basement	SS-1	SS-1:A022818	02/28/18	Sub-slab	6L Summa	8.0	-28.0	-2.0	TO-15	9.8	17.5	0.060	0.21	<0.037	0.58	0.77	0.26
	Basement	IA-1	IA-1:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.5	TO-15	0.12	<0.085	<0.062	<0.062	<0.040	0.60	0.59	0.55
	Basement	SS-1	SS-1:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30.0	-6.0	TO-15	84.2	0.28	<0.062	<0.062	<0.040	0.57	1.5	1.0
	Basement	IA1	IA1:A011322	01/13/22	Indoor Air	6L Summa	8.0	-29.0	-3.0	TO-15	1.8	<0.080	<0.12	<0.12	<0.038	1.9	0.44	1.6
	Basement	SS1	SS1:A011322	01/13/22	Sub-slab	6L Summa	8.0	-30.0	-4.0	TO-15	22.6	<0.079	<0.12	<0.12	<0.037	0.78	1.1	0.37
	Basement	IA1	IA1:A031523	03/15/23	Indoor Air	6L Summa	8.0	-34.0	-4.5	TO-15 SIM	<0.17	<0.14	<0.10	<0.51	<0.033	0.47	0.44	2.8
	Basement	SS1	SS1:A031523	03/15/23	Sub-slab	6L Summa	8.0	-34.0	-4.0	TO-15 SIM	1.6	<0.14	<0.10	<0.51	<0.033	0.26	0.44	0.73

Table 5. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results (720 25th Ave)

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Building Location	Area / Building Floor	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon Tetrachloride	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")											127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3
2023 Indoor Air Cleanup Level, Method B											9.62	0.334	18.3	18.3	0.284	0.321	0.417	0.109
2023 Indoor Air Cleanup Level, Method C											40	2	40	40	2.84	3.21	4.17	1.09
2023 Sub-Slab Soil Gas Screening Level, Method B											320	11	610	610	9.5	11	14	3.6
2023 Sub-Slab Soil Gas Screening Level, Method C											1,300	67	1,300	1,300	95	110	140	36
Outdoor Air																		
November 2012	Outdoor	AMB-3	AMB-3 ISS 720 25th Ave	11/30/12	Outdoor Air	6L Summa	8.0	-29.5	-8.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042	0.84	NT	NT
November 2013	Outdoor	OA1	OA-1:A110713	11/07/13	Outdoor Air	6L Summa	8.0	-30.0+	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040	0.35	NT	NT
November 2013	Outdoor	OA2	OA-1:A110713	11/07/13	Outdoor Air	6L Summa	8.0	-30.0+	-6.5	TO-15 SIM	<0.22	<0.17	<0.13	<0.63	<0.041	0.35	NT	NT
February 2018	Outdoor	OA720	OA-720:A022818	02/28/18	Outdoor Air	6L Summa	8.0	-30.0+	-4.0	TO-15 SIM	0.20	0.17	<0.060	<0.060	<0.039	0.77	0.65	0.12
January 2020	Outdoor	OA720	OA720:A012720	01/27/20	Outdoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	1.3	0.089	<0.064	<0.064	<0.041	2.0	0.74	0.43
January 2022	Outdoor	OA	OA:A011322	01/13/22	Outdoor Air	6L Summa	8.0	-30	-5.0	TO-15	0.49	<0.077	<0.11	<0.11	<0.037	0.69	0.44	

- Notes:
1. All air analytical results are presented in micrograms per cubic meter (ug/m3).
 2. All results are displayed for tetrachloroethene and its daughter compounds: trichloroethene, cis-1,2-dicloroethene, trans-1,2-dichloroethene and vinyl chloride. The other compounds presented contain at least one sample that was detected at a concentration greater than the applicable cleanup/screening level during the most recent sample collection event.
 3. A bold font style indicates that the concentration exceeds the applicable Method B Screening Level, and a bold underelined font style indicates that the concentration exceeds the applicable Method C. For carcinogens, the Cancer Screening Level is used. For non-carcinogens, the Noncancer Screening Level is used.
 4. NT = Not Tested
 5. NA = Not Available

Table 6. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results (2516 E Cherry St)

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sampling Event	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon tetrachloride	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")										127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3
2023 Indoor Air Cleanup Level, Method B										9.62	0.334	18.3	18.3	0.284	0.321	0.417	0.109
2023 Indoor Air Cleanup Level, Method C										40	2	40	40	2.84	3.21	4.17	1.09
2023 Sub-Slab Soil Gas Screening Level, Method B										320	11	610	610	9.5	11	14	3.6
2023 Sub-Slab Soil Gas Screening Level, Method C										1,300	67	1,300	1,300	95	110	140	36
October 2012	SV-2	SV-2 Twilight	10/24/12	Sub-slab	6L Summa	NA	-28.5	-6	TO-15	36,000	<94	<69	<69	<45	<56		NT
	IA-2	IA-2 Twilight	10/24/12	Indoor Air	6L Summa	NA	-29.5	-8	TO-15	6.9	<0.19	<0.14	<0.71	<0.046	1.0		NT
	IA-3	IA-3 Twilight	10/24/12	Indoor Air	6L Summa	NA	-29	-8	TO-15	6.8	<0.20	<0.15	<0.76	<0.049	0.97		NT
	SV-3	SV-3 Twilight	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	28,000	<78	<58	<58	<37	<46		NT
	SV-4	SV-4 Twilight	10/24/12	Sub-slab	6L Summa	NA	-30	-8	TO-15	110,000	<240	<180	<180	<120	<140		NT
April 2013																	
	IA-03	2516IA-03-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	24	<0.17	<0.13	<0.64	<0.041	0.59	NA	NA
	IA-02	2516IA-02-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	12	<0.18	<0.13	<0.65	<0.042	0.61	NA	NA
	Building Roof	2516INTAKE-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.24	<0.18	<0.13	<0.66	<0.042	0.40	NA	NA
May 2013																	
	IA-03	2516IA-03-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	25	<0.88	<0.65	<3.2	<0.21	<1.3	NA	NA
	IA-02	2516IA-02-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	15	<0.36	<0.27	<1.3	<0.087	<0.54	NA	NA
June 2017																	
	IA-1	IA-1:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30+	-4	TO-15	2.9	<0.22	<0.19	<0.30	<0.15	0.66	0.52	0.40
	SS-1	SS-1:A062917	06/29/17	Sub-slab	6L Summa	7.5	-30+	-4	TO-15	1,900	18.7	<0.18	<0.29	<0.15	1.5	3.1	6.2
	IA-2	IA-2:A062917	06/29/17	Indoor Air	6L Summa	7.4	-30+	-5	TO-15	2.2	<0.22	<0.19	<0.30	<0.15	0.57	0.49	0.51
	IA-2	FD:A062917	06/29/17	Indoor Air	6L Summa	7.4	-24.5	-3.5	TO-15	5.6	<0.21	<0.18	<0.29	<0.15	9.1	0.45	0.51
February 2018																	
	SS-2	SS-2:A062917	06/29/17	Sub-slab	6L Summa	7.5	-27	-4	TO-15	636	6.9	<0.18	<0.29	<0.15	1.3	1.1	84.7
	IA-1	IA1:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-4	TO-15	19.6	0.13	<0.062	<0.062	<0.040	1.6	0.63	0.45
	SS-1	SS1:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-11	TO-15	8,550	9.5	<0.085	<0.085	<0.055	1.0	0.99	5.1
January 2020																	
	IA-2	IA2:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-4	TO-15	16.9	1.2	<0.084	<0.084	<0.054	1.9	0.75	0.54
	SS-2	SS2:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-2	TO-15	544	3.3	<0.058	<0.058	<0.037	0.79	4.5	143
January 2020																	
	IA-1	IA1:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-5.5	TO-15	4.1	<0.085	<0.062	<0.062	<0.040	1.9	0.81	0.44
	SS-1	SS1:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30	-5.5	TO-15	28,000	<40.6	<30.0	<30.0	<19.3			
	IA-2	IA2:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-5	TO-15	7.2	<0.088	<0.065	<0.065	<0.042	2.1	0.43	1.1
	IA-2	DuplicatelA:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-6	TO-15	8.0	<0.088	<0.065	<0.065	<0.042	2.1	0.68	1.1
October 2021																	
	SS-2	SS2:A0122720	01/27/20	Sub-slab	6L Summa	8.0	-29.9	-6	TO-15	742	3.8	<0.27	0.40	<0.17	2.6	1.9	82.6
	IA-1	IA1:A100421	10/04/21	Indoor Air	6L Summa	8.0	-29	-4	TO-15	2.1	0.13	<0.12	<0.12	<0.037	0.35		0.43
	SS-1	SS1:A100421	10/04/21	Sub-slab	6L Summa	8.0	-30	-2	TO-15	29,200	5.6	<0.12	<0.12	<0.037	0.36	0.80	5.4
March 2023																	
	IA-2	IA2:A100421	10/04/21	Indoor Air	6L Summa	8.0	-30	-4.5	TO-15	0.91	<0.079	<0.12	<0.12	<0.037	0.33	0.37	0.24
	IA-2	FD1:A100421	10/04/21	Indoor Air	6L Summa	8.0	-30	-4.5	TO-15	0.94	2.4	1.6	<0.12	<0.039	0.32	0.54	0.24
	SS-2	SS2:A100421	10/04/21	Sub-slab	6L Summa	8.0	-30	-4	TO-15	6320	14.3	<0.12	<0.12	<0.037	0.13	0.68	78.4
March 2023																	
	IA-1	IA1:A031123	03/11/23	Indoor Air	6L Summa	8.0	-29	-5	TO-15 SIM	17	<0.52	<0.38	<1.9	<0.12			
	SS-1	SS1:A031123	03/11/23	Sub-slab	6L Summa	8.0	-29	-5.0	TO-15 SIM	1,300	4.8	<1.1	<5.4	<0.35			8.3
	IA-2	IA2:A031123	03/11/23	Indoor Air	6L Summa	8.0	-28.5	-3.5	TO-15 SIM	12	<0.27	<0.20	<1.0	<0.064	0.63	0.40	0.56
	IA-2	FD1:A031123	03/11/23	Indoor Air	6L Summa	8.0	-29.5	-3.5	TO-15 SIM	13	<0.47	<0.35	<1.7	<0.11			0.61
March 2023																	
	SS-2	SS2:A031123	03/11/23	Sub-slab	6L Summa	8.0	-29	-3.5	TO-15 SIM	20	0.95	<0.10	<0.52	<0.033	0.52	0.61	36
March 2023																	

Table 6. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results (2516 E Cherry St)

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sampling Event	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon tetrachloride	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")										127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	56-23-5	67-66-3
2023 Indoor Air Cleanup Level, Method B										9.62	0.334	18.3	18.3	0.284	0.321	0.417	0.109
2023 Indoor Air Cleanup Level, Method C										40	2	40	40	2.84	3.21	4.17	1.09
2023 Sub-Slab Soil Gas Screening Level, Method B										320	11	610	610	9.5	11	14	3.6
2023 Sub-Slab Soil Gas Screening Level, Method C										1,300	67	1,300	1,300	95	110	140	36
Outdoor Air																	
October 2012	Outdoor	AMB-1	10/24/12	Outdoor Air	6L Summa	NA	-30+	-5.0	TO-15	0.68	<0.17	<0.12	<0.61	<0.040	0.81		NT
April 2013	Outdoor	AMB-01-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.26	<0.17	<0.12	<0.63	<0.040	0.75	NA	NA
May 2013	Outdoor	AMB-01-20130530	05/30/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	<0.22	<0.18	<0.13	<0.66	<0.042	0.30	NA	NA
June 2017	Outdoor	OA:A062917	06/29/17	Outdoor Air	6L Summa	6.1	-27	-2.0	TO-15	1.2	<0.21	<0.18	<0.29	<0.15	0.44	0.44	<0.14
February 2018	Outdoor	OA2516:A022818	02/28/18	Outdoor Air	6L Summa	8.0	-30	-3.0	TO-15	0.42	<0.076	<0.056	<0.056	<0.036	0.87	0.53	0.14
January 2020	Outdoor	OA2516:A012720	01/27/20	Outdoor Air	6L Summa	8.0	-29.5	-6.0	TO-15	1.3	0.087	<0.062	<0.062	0.042	2.5	0.69	0.50
October 2021	OA1	OA1:A100421	10/24/21	Oudoor Air	6L Summa	8.0	-30	-7.5	TO-15	0.18	<0.079	<0.12	<0.12	<0.037	0.44	0.54	
March 2023	OA-1	OA1:A031123	03/11/23	Outdoor Air	6L Summa	8.0	-28	-6.0	TO-15 SIM	0.26	<0.14	<0.10	<0.52	<0.033	0.51	0.45	

- Notes:
1. All air analytical results are presented in micrograms per cubic meter (ug/m3).
 2. All results are displayed for tetrachloroethene and its daughter compounds: trichloroethene, cis-1,2-dicloroethene, trans-1,2-dichloroethene and vinyl chloride. The other compounds presented contain at least one sample that was detected at a concentration greater than the applicable cleanup/screening level during the most recent sample collection ever
 3. A bold font style indicates that the concentration exceeds the applicable Method B Screening Level, and a bold underlined font style indicates that the concentration exceeds the applicable Method C. For carcinogens, the Cancer Screening Level is used. For non-carcinogens, the Noncancer Screening Level is used.
 4. NT = Not Tested
 5. NA = Not Available



VCP ID No. NW2009

Project No. WAKS2510C22.2

Date: 4/1/24

Figures

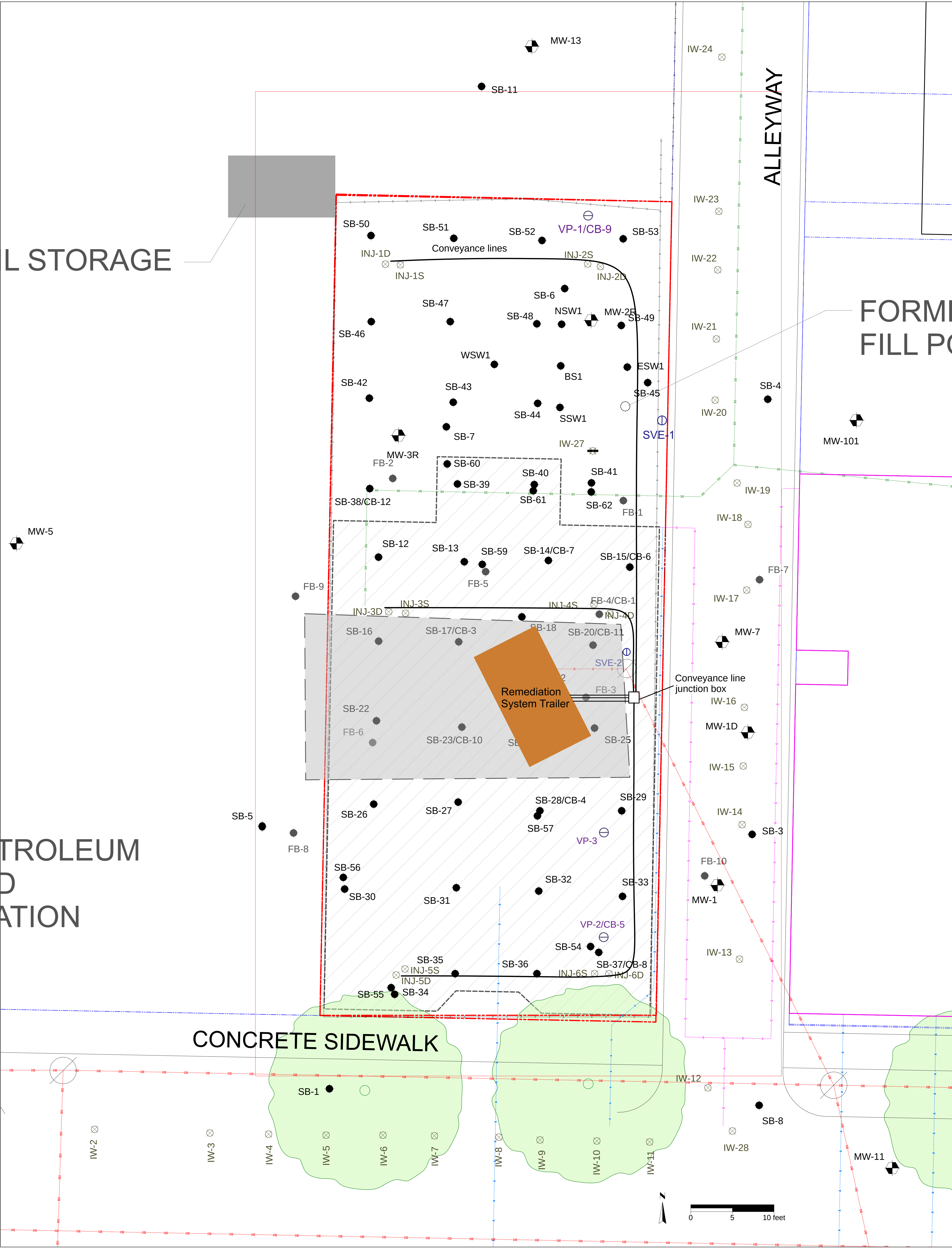


Figure No: 2
Title: Facility Plan
Scale: 1 in = 5 ft
Project No: WAKS2510C18.8
Report: Annual Report
Drawn by: The ELAM Group
Date: 02/02/2024

LEGEND	
	Monitoring Well
	Vapor Point
	Abandoned Vapor Point
	Soil Boring
	Injection Well
	Abandoned Injection Well
	Soil Vapor Extraction Well
	Abandoned Soil Vapor Extraction Well
	Tree
	Former Building Location
	Vapor Intrusion Assessment Location
	Underground Sanitary Sewer Line
	Underground Water Line
	Underground Natural Gas Line
	Overhead Electric Line
	Utility Pole
	Gravel Pad

Notes:

The **ELAM** Group

LEGEND

-  Monitoring Well
-  SS Underground Sanitary Sewer Line
-  W Underground Water Line
-  G Underground Natural Gas Line
-  OH Overhead Electric Line
-  Utility Pole
-  Tree
-  Former Building Location
-  Vapor Intrusion Assessment Location
-  259.69 Water Table Elevation (ft.)
-  252.5 Water Table Contour (ft.)
-  Approx Ground-water Flow Direction

Notes:

$$A - A' = \frac{252.50 - 252.00}{380} = 0.0013$$

MW-15 was not contoured due to anomalous groundwater elevation reading.

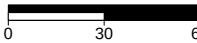


Figure No: 3a

Title: Shallow GW Elevations (Q1 2023)

Scale: 1" = 60'

Project No: WAKS2510C

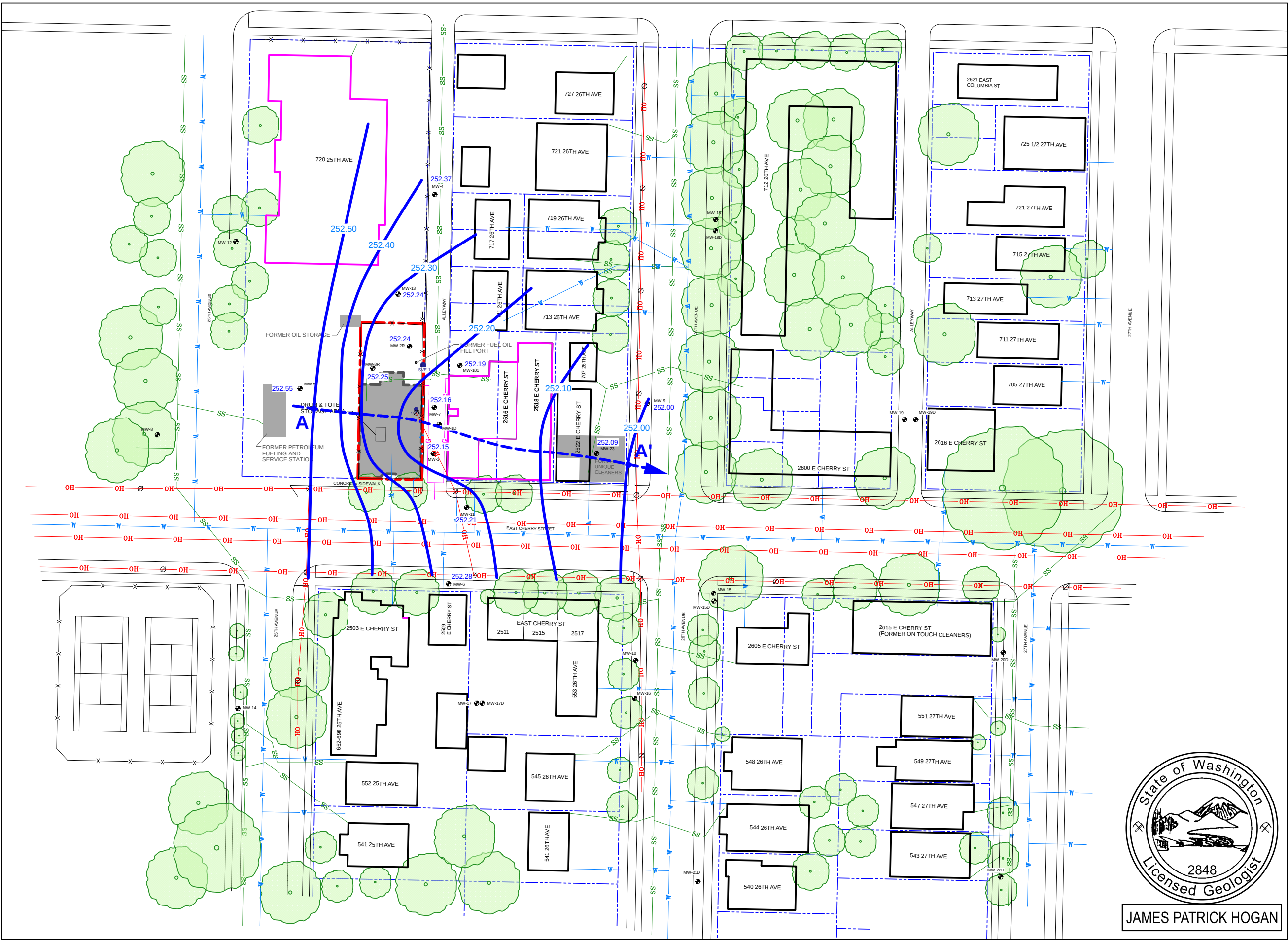
Report: Annual Report

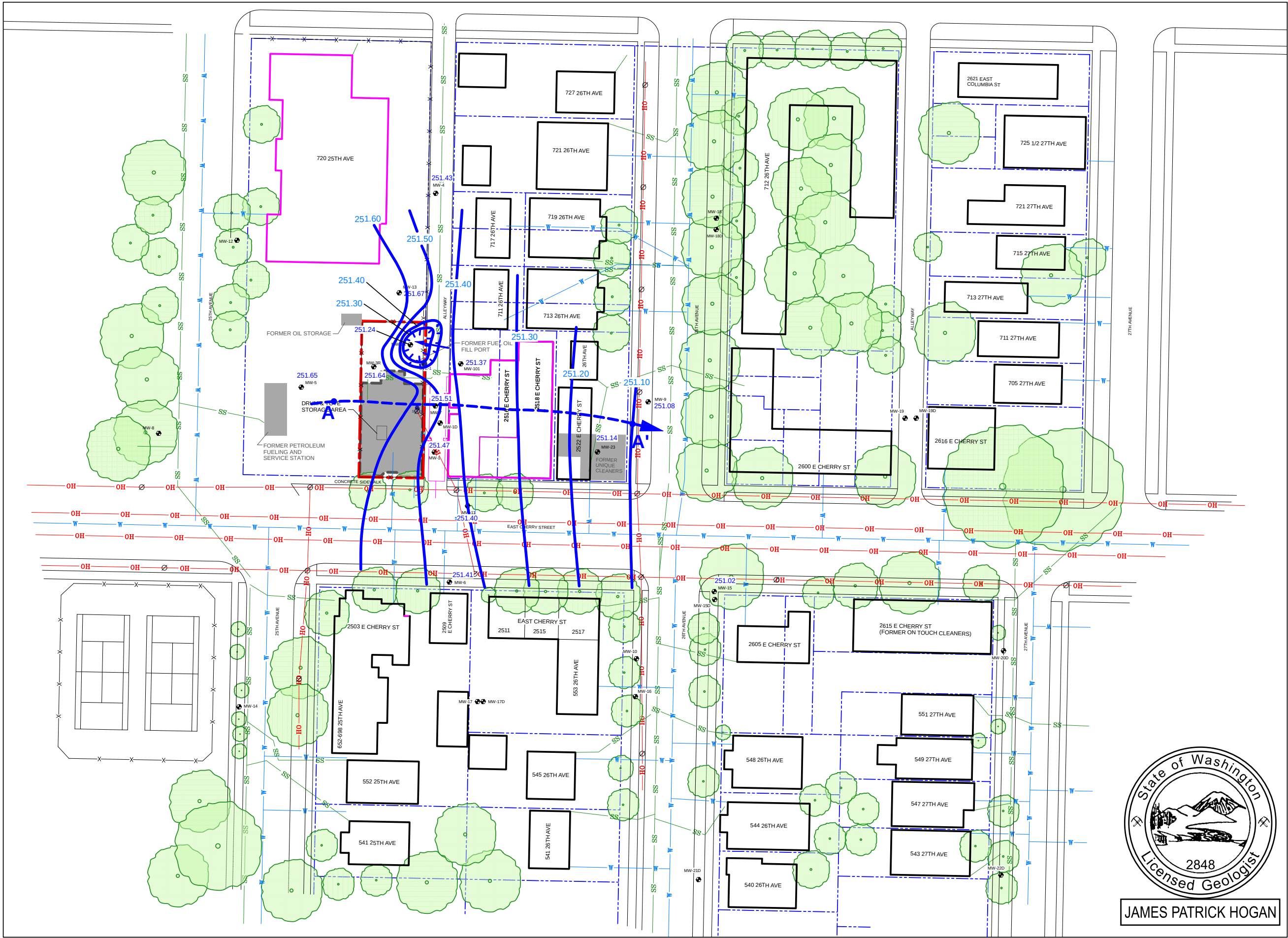
Drawn by: The ELAM Group

Date: 02/05/2024



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LEGEND

-  Monitoring Well
-  Underground Sanitary Sewer Line
-  Underground Water Line
-  Underground Natural Gas Line
-  Overhead Electric Line
-  Utility Pole
-  Tree
-  Former Building Location
-  Vapor Intrusion Assessment Location
-  Water Table Elevation (ft.)
-  Water Table Contour (ft.)
-  Approx Ground-water Flow Direction

Notes:

$$A - A' = \frac{252.60 - 252.10}{352} = 0.0014$$

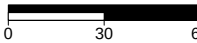


Figure No: 3c

Title: Shallow GW Elevations (Q3 2023)

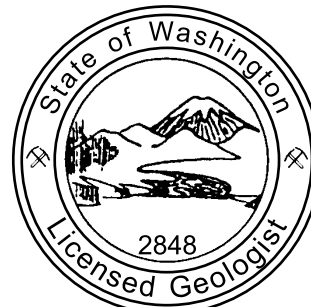
Scale: 1" = 60'

Project No: WAKS2510C

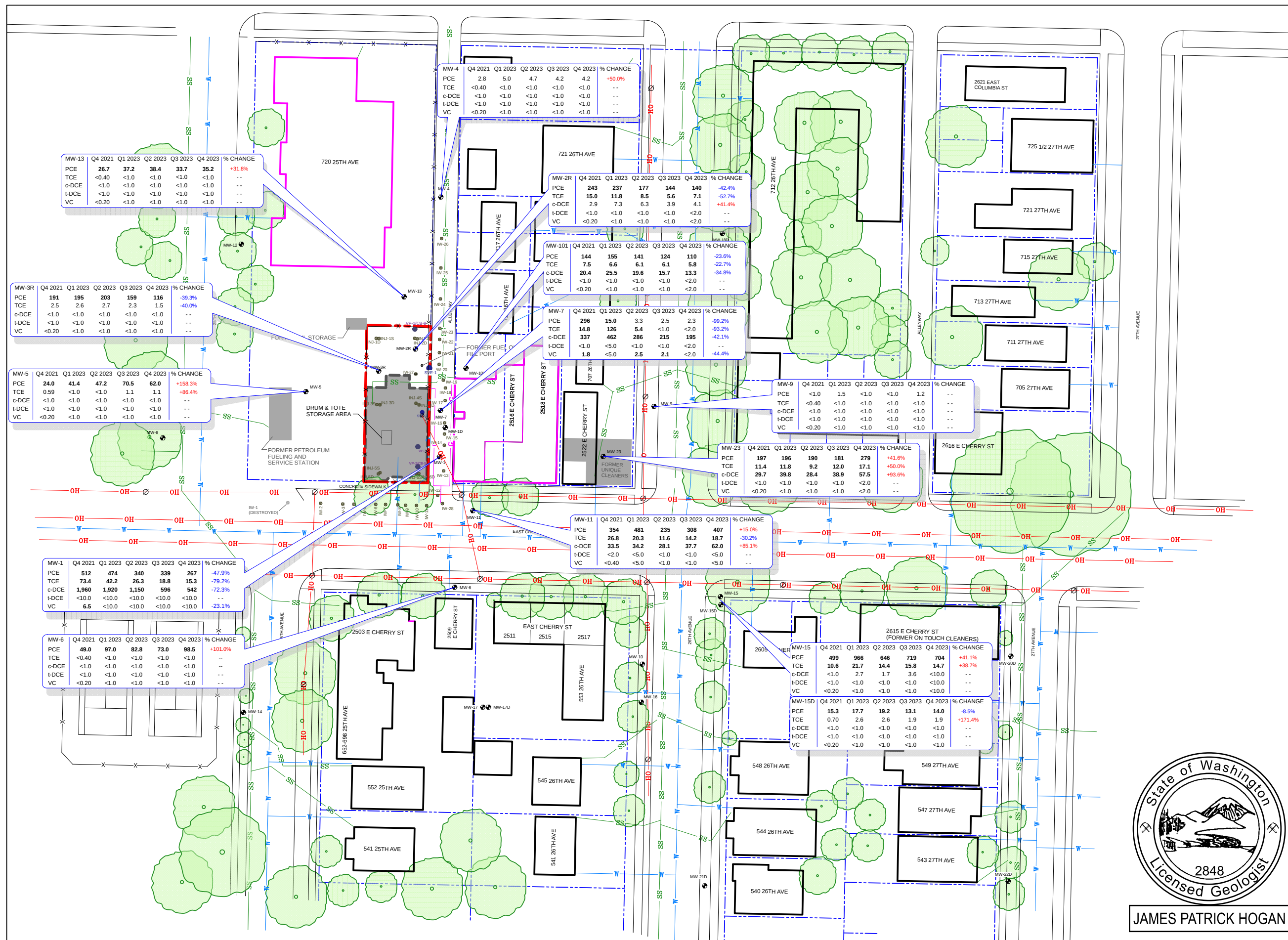
Report: Annual Report

Drawn by: The ELAM Group

Date: 02/05/2024



JAMES PATRICK HOGAN



The**ELAM**Group

LEGEND

- | | |
|--|--------------------------------------|
| | Monitoring Well |
| | Injection Well |
| | Soil Vapor Extraction Well |
| | Vapor Monitoring Point |
| | Abandoned Injection Well |
| | Abandoned Soil Vapor Extraction Well |
| | Abandoned Vapor Monitoring Point |
| | Underground Sanitary Sewer Line |
| | Underground Water Line |
| | Underground Natural Gas Line |
| | Overhead Electric Line |
| | Utility Pole |
| | Tree |
| | Former Building Location |
| | Vapor Intrusion Assessment Location |

Notes:

1. All water analytical results are presented in micrograms Per liter (ug/L).
2. A % change decrease is shown in blue font color.
3. A % change increase is shown in red font color.



Figure No: 4

Title: Groundwater Analytical Data

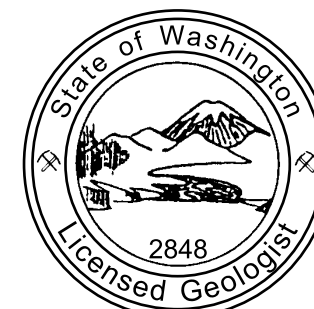
Scale: 1" = 60'

Project No: WAKS2510C

Report: Annual Report

Drawn by: The ELAM Group

Date: 02/15/2024



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TheELAMGroup

LEGEND

- Air Sampling Point
- Subslab Soil Gas Sampling Point
- Air Sampling Point (2012)
- Subslab/Crawl Space Soil Gas Sampling Point (2012)
- Sample collected after soil treatment at Cherry Street Cleaners facility in June 2021
- Sample collected after operation of Ozone Injection Treatment System began in November 2022
- Paired IA/SS Sampling Location

Notes:

- Analytical results are presented in micrograms per cubic meter (ug/m³).
- Any analytical result that exceeds an applicable Residential MTCA Method B Screening Level is shown in **bold font style**.

P Tetrachloroethylene (PCE)
T Trichloroethylene (TCE)
c-DCE cis-1,2-Dichloroethane
t-DCE trans-1,2-Dichloroethane
VC Vinyl Chloride



0 10 20 feet

Figure No: 5

Title: VIA Sample Results (720 25th Ave)

Scale: 1" = 20'

Project No: WAKS2510C

Report: Annual Report

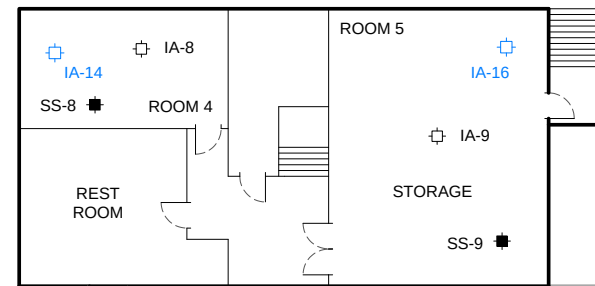
Drawn by: The ELAM Group

Date: 02/02/2024

BASEMENT PLAN

1ST FLOOR PLAN

2ND FLOOR PLAN

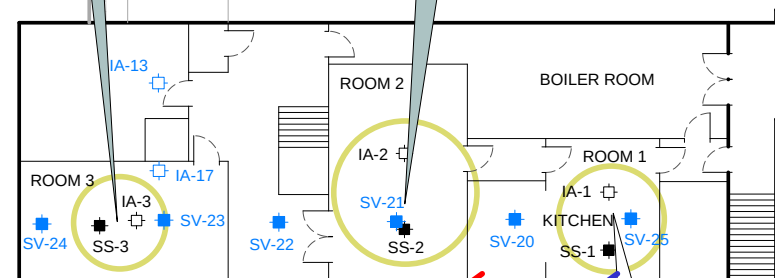


IA-3 3/16/17	IA-3 2/28/18	IA-3 1/27/20	IA-3 1/13/22	IA-3 3/15/23
P 1.0	P 0.22	P <0.12	P 0.25	P <0.18
T <0.79	T 0.11	T <0.096	T <0.080	T <0.14
c-DCE <1.2	c-DCE <0.062	c-DCE <0.071	c-DCE <0.12	c-DCE <0.10
t-DCE <1.2	t-DCE <0.062	t-DCE <0.071	t-DCE <0.12	t-DCE <0.52
VC <0.37	VC <0.040	VC <0.046	VC <0.038	VC <0.033

SS-3 3/16/17	SS-3 2/28/18	SS-3 1/27/20	SS-3 1/13/22	SS-3 3/15/23
P NS	P NS	P NS	P NS	P NS
T NS	T NS	T NS	T NS	T NS
c-DCE NS	c-DCE NS	c-DCE NS	c-DCE NS	c-DCE NS
t-DCE NS	t-DCE NS	t-DCE NS	t-DCE NS	t-DCE NS
VC NS	VC NS	VC NS	VC NS	VC NS

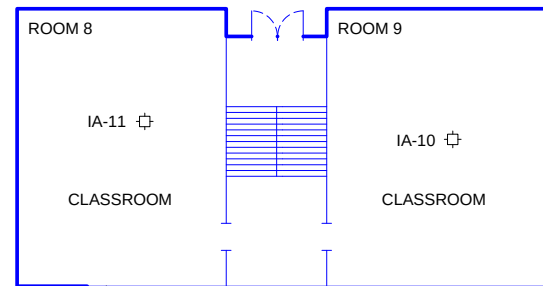
IA-2 3/16/17	IA-2 2/28/18	IA-2 1/27/20	IA-2 1/13/22	IA-2 3/15/23
P <2.1	P 0.29	P 0.71	P 4.3	P 0.69
T <0.85	T 0.20	T <0.088	T <0.079	T <0.14
c-DCE <1.3	c-DCE <0.062	c-DCE <0.065	c-DCE <0.12	c-DCE <0.10
t-DCE <1.3	t-DCE <0.062	t-DCE <0.065	t-DCE <0.12	t-DCE <0.50
VC <0.40	VC <0.040	VC <0.042	VC <0.037	VC <0.032

SS-2 3/16/17	SS-2 2/28/18	SS-2 1/27/20	SS-2 1/13/22	SS-2 3/15/23
P 445	P 442	P 412	P 217	P 16
T <0.89	T 0.26	T 0.48	T 0.18	T <0.14
c-DCE <1.3	c-DCE <0.058	c-DCE <0.068	c-DCE <0.12	c-DCE <0.10
t-DCE <1.3	t-DCE <0.058	t-DCE <0.070	t-DCE <0.12	t-DCE <0.51
VC <0.42	VC <0.037	VC <0.044	VC <0.038	VC <0.033



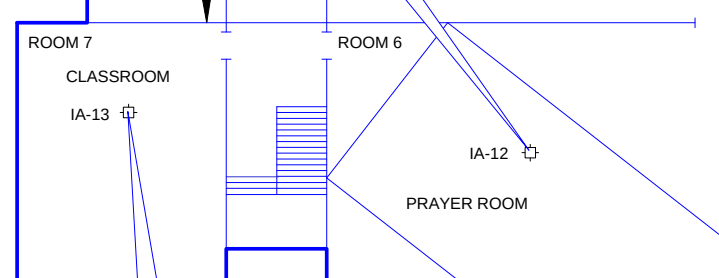
IA-1 3/16/17	IA-1 2/28/18	IA-1 1/27/20	IA-1 1/13/22	IA-1 3/15/23
P <2.1	P 0.31	P 0.12	P 1.8	P <0.17
T <0.85	T <0.079	T <0.085	T <0.080	T <0.14
c-DCE <1.3	c-DCE <0.058	c-DCE <0.062	c-DCE <0.12	c-DCE <0.10
t-DCE <1.3	t-DCE <0.058	t-DCE <0.062	t-DCE <0.12	t-DCE <0.51
VC <0.40	VC <0.037	VC <0.040	VC <0.038	VC <0.033

SS-1 3/16/17	SS-1 2/28/18	SS-1 1/27/20	SS-1 1/13/22	SS-1 3/15/23
P 62.7	P 9.8	P 84.2	P 22.6	P 1.6
T <0.85	T 17.5	T 0.28	T <0.079	T <0.14
c-DCE <1.3	c-DCE 0.060	c-DCE <0.062	c-DCE <0.12	c-DCE <0.10
t-DCE <1.3	t-DCE 0.21	t-DCE <0.062	t-DCE <0.12	t-DCE <0.51
VC <0.40	VC <0.037	VC <0.040	VC <0.038	VC <0.033

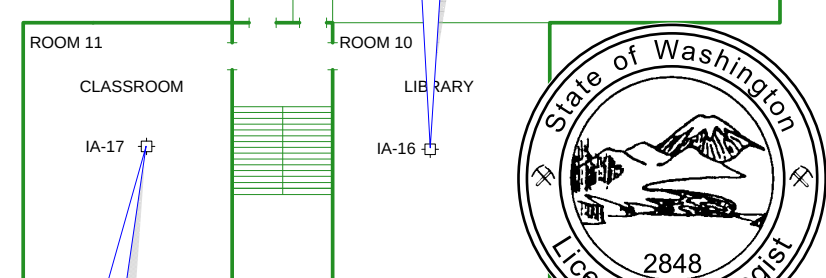
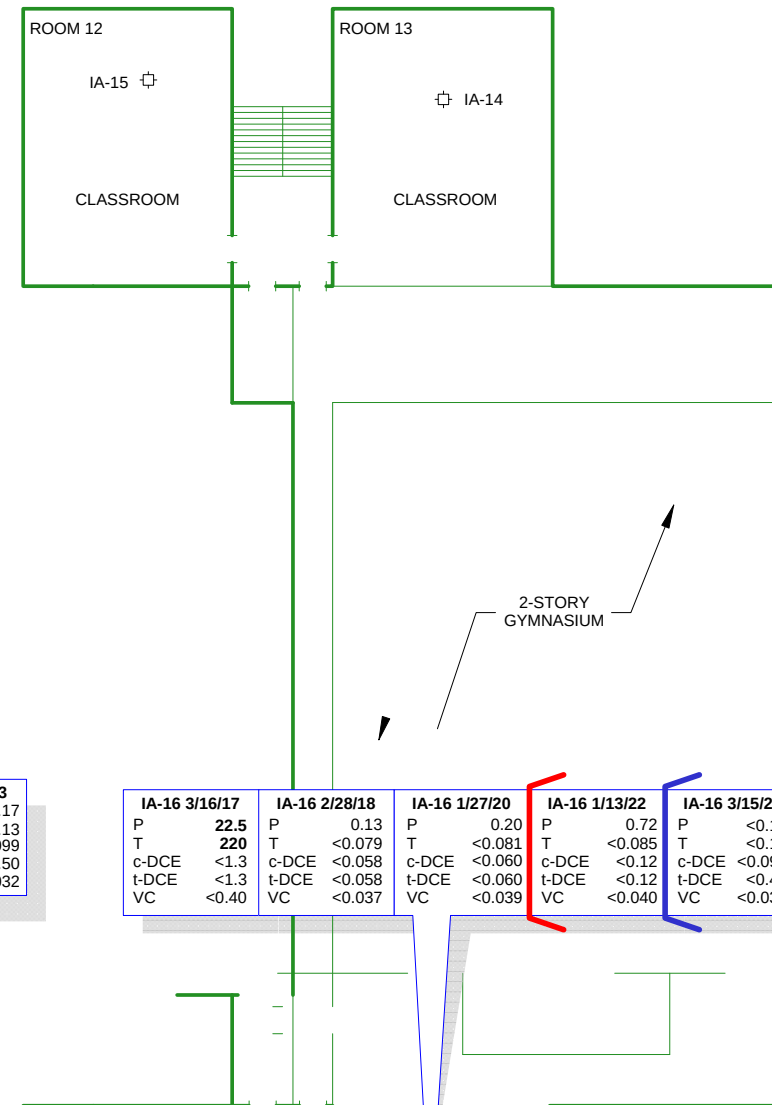


IA-12 3/16/17	IA-12 2/28/18	IA-12 1/27/20	IA-12 1/13/22	IA-12 3/15/23
P <2.2	P 0.23	P 0.13	P 0.47	P <0.17
T <0.83	T 0.23	T <0.085	T <0.080	T <0.13
c-DCE <1.3	c-DCE <0.074	c-DCE <0.062	c-DCE <0.12	c-DCE <0.099
t-DCE <1.3	t-DCE <0.074	t-DCE <0.062	t-DCE <0.12	t-DCE <0.50
VC <0.42	VC <0.048	VC <0.040	VC <0.038	VC <0.032

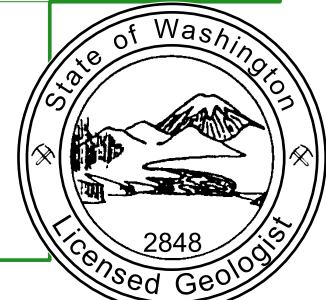
IA-13 3/16/17	IA-13 2/28/18	IA-13 1/27/20	IA-13 1/13/22	IA-13 3/15/23
P <2.3	P 0.13	P <0.12	P 0.49	P <0.17
T <0.92	T 0.13	T <0.093	T <0.083	T <0.14
c-DCE <1.4	c-DCE <0.058	c-DCE <0.069	c-DCE <0.12	c-DCE <0.10
t-DCE <1.4	t-DCE <0.058	t-DCE <0.069	t-DCE <0.12	t-DCE <0.51
VC <0.44	VC <0.037	VC <0.044	VC <0.040	VC <0.033



IA-13 3/16/17	IA-13 2/28/18	IA-13 1/27/20	IA-13 1/13/22	IA-13 3/15/23
P <2.3	P 0.13	P <0.12	P 0.49	P <0.17
T <0.92	T 0.13	T <0.093	T <0.083	T <0.14
c-DCE <1.4	c-DCE <0.058	c-DCE <0.069	c-DCE <0.12	c-DCE <0.10
t-DCE <1.4	t-DCE <0.058	t-DCE <0.069	t-DCE <0.12	t-DCE <0.51
VC <0.44	VC <0.037	VC <0.044	VC <0.040	VC <0.033



IA-17 3/16/17	IA-17 2/28/18	IA-17 1/27/20	IA-17 1/13/22	IA-17 3/15/23
P <2.1	P 0.16	P <0.16	P 0.64	P <0.17
T <0.89	T 0.089	T <0.13	T <0.074	T <0.13
c-DCE <1.3	c-DCE <0.056	c-DCE <0.093	c-DCE <0.11	c-DCE <0.098
t-DCE <1.3	t-DCE <0.056	t-DCE <0.093	t-DCE 0.39	t-DCE <0.49
VC <0.40	VC <0.036	VC <0.060	VC <0.035	VC <0.032



JAMES PATRICK HOGAN



TheELAMGroup

LEGEND

- Air Sampling Point
- Subslab/Crawl Space Soil Gas Sampling Point
- Air Sampling Point (2012)
- Subslab/Crawl Space Soil Gas Sampling Point (2012)
- Air Sampling Point (2013)
- Sample collected after soil treatment at Cherry Street Cleaners facility in June 2021
- Sample collected after operation of Ozone Injection Treatment System began in November 2022
- Paired IA/SS Sampling Location

- Notes:
- Analytical results are presented in micrograms/cubic meter (ug/m³)
 - Any analytical result that exceeds an applicable Commercial MTCA Method C Screening Level is shown in **bold font style**
 - Samples were analyzed for the full VOC list. Only PCE and its daughter products TCE and VC are shown

P Tetrachloroethylene (PCE)
T Trichloroethylene (TCE)
VC cis-1,2-Dichloroethane
t-DCE trans-1,2-Dichloroethane
VC Vinyl Chloride

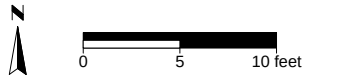
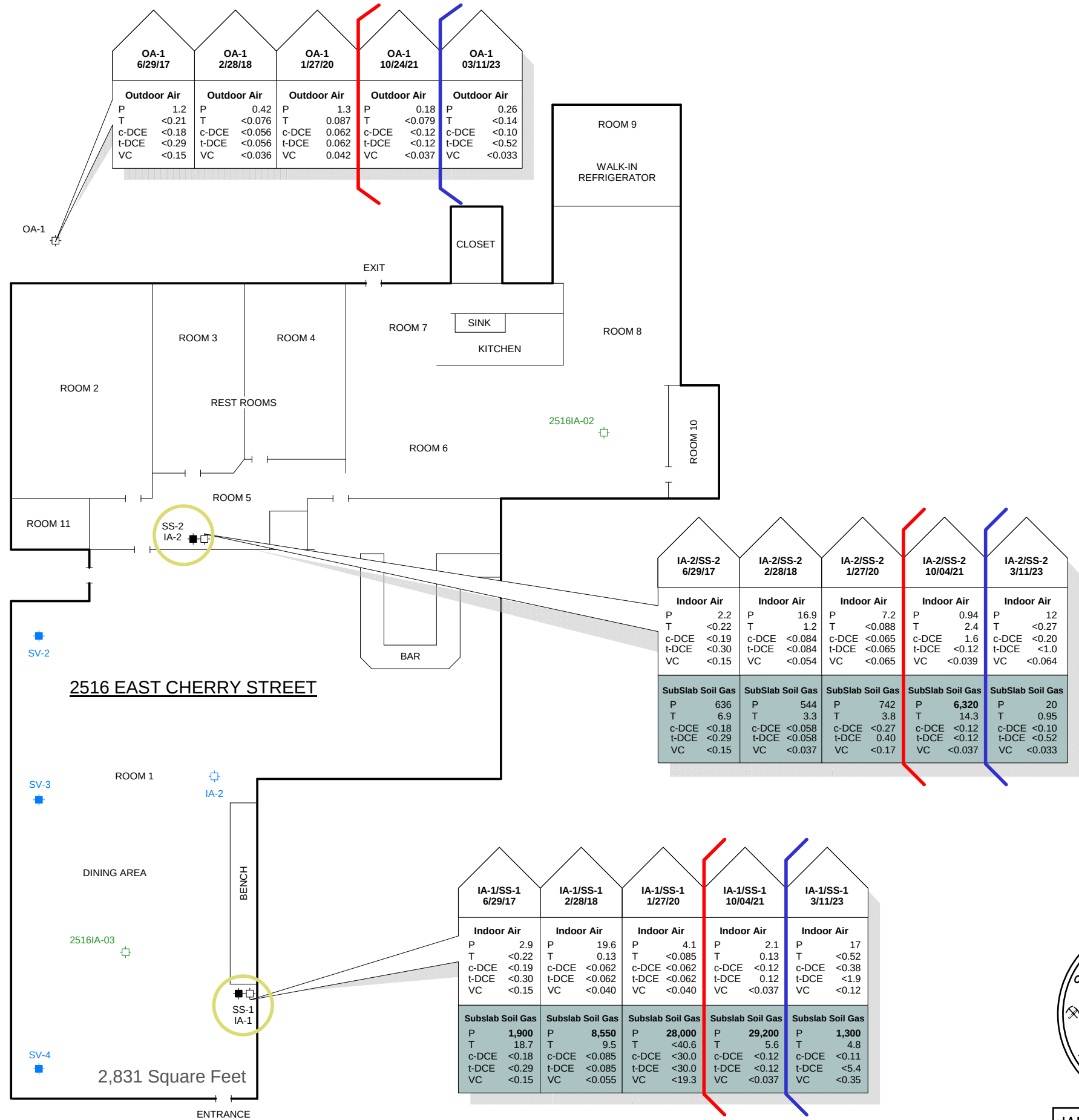


Figure No: 6
Title: VIA Sample Results (2516 E Cherry St)
Scale: 1" = 10'
Project No: WAKS2510C
Report: VIA Report
Drawn by: The ELAM Group
Date: 02/02/2024



JAMES PATRICK HOGAN



Appendix A

OITS Operational Data



Appendix A.1

OITS Daily Operation Data Screenshots

REAR TLR TEMP

52.3 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

44.0 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.4 PSI

O2 PRESSURE OK
55.6 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.1 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #19

19 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.1 PSI

SPARGE AIR VALVE

OPEN

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.7 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

42.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
116.8 PSI

O2 PRESSURE OK
53.8 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.1 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.5 PSI

TIMER STATUS

TIMER #13
19 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.1 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #7
19 min

PRESS & HOLD TO JOG TIMER

23:55:00 01/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.4 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #1
19 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 01/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

53.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.1 PSI

O2 PRESSURE
OK
53.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
O3 GEN DELAY START
OZONE GENERATOR
OFF
0.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
3.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.0 PSI

TIMER STATUS

TIMER #19

19 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
O3 GEN #1 FAULT
0.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #13
18 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
0.1 amps
O3 GEN #1 FAULT

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #7
18 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
0.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS
TIMER #1
18 min
PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 01/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
O3 GEN #1 FAULT
0.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.6 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #19
18 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
O3 GEN #1 FAULT
0.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.8 g/m3

O2 PURITY ON
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #13
18 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

1/11/23 - File Missing



REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
0.1 amps
O3 GEN #1 FAULT

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.3 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS
TIMER #1
18 min
PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
O3 GEN #1 FAULT
0.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.6 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #19
18 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

43.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
53.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR
O3 GEN #1 FAULT
0.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
2.9 g/m3

O2 PURITY ON
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.0 PSI

TIMER STATUS

TIMER #13
18 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

1/15/23 - File Missing



REAR TLR TEMP

50.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
124.8 PSI

O2 PRESSURE
OK
47.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
5.5 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #13

1 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
8.3 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.3 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
108.7 PSI

O2 PRESSURE OK
44.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.2 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
5.5 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
6.0 PSI

TIMER STATUS
TIMER #5
5 min
PRESS & HOLD TO JOG TIMER

DRAIN VALVE
AUTO HAND OFF

O3 SPARGE SYSTEM ON



23:55:00 01/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

53.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
115.8 PSI

O2 PRESSURE OK
48.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.2 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
5.5 g/m3

O3 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

WELL PRESSURE OK
4.7 PSI

TIMER STATUS

TIMER #22

0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
123.8 PSI

O2 PRESSURE OK
49.4 PSI

O2 VALVE OPEN

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

O3 VALVE OPEN

HAND/AUTO OZONE GEN ACTIVE?

A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

MANIFOLD

OZONE CONCENTRATION 5.5 g/m3
O3 PURITY OK 93.0 %

AMBIENT OZONE 0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
5.3 PSI

TIMER STATUS

TIMER #16 0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

FILTER

O3 SPARGE SYSTEM ON



23:55:00 01/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.7 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.2 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.2 PSI

O2 PRESSURE
OK
49.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.2 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
5.6 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
3.2 PSI

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
124.2 PSI

O2 PRESSURE
OK
50.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
5.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
3.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

54.3 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

60.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
100.3 PSI

FILTER

DRAIN VALVE

AUTO HAND OFF

O2 PRESSURE OK
51.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
5.6 g/m3
O3 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
4.8 PSI

TIMER STATUS
TIMER #22
0 min
PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 01/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

50.4 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
115.4 PSI

O2 PRESSURE OK
54.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
5.8 g/m3
O3 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.4 PSI

HAND/AUTO OZONE GEN ACTIVE?

A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD TO JOG TIMER

23:55:00 01/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

MANIFOLD

DRAIN VALVE

FILTER

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN ON

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
123.5 PSI

O2 PRESSURE
OK
53.3 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

O3 VALVE
OPEN

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

MANIFOLD

OZONE
CONCENTRATION
5.7 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
3.1 PSI

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 01/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

50.8 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN ON

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
116.1 PSI

O2 PRESSURE OK
54.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
5.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
3.2 PSI

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.5 PSI

O2 PRESSURE
OK
55.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
5.9 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

WELL PRESSURE
OK
4.8 PSI

TIMER STATUS

TIMER #22

0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.0 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.8 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
110.5 PSI

O2 PRESSURE OK
55.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
5.9 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
5.3 PSI

TIMER STATUS
TIMER #16
0 min
PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

49.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

56.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.1 PSI

O2 PRESSURE
OK
54.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
5.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
3.1 PSI

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 01/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

54.4 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
122.6 PSI

O2 PRESSURE OK
54.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
5.9 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
3.1 PSI

TIMER STATUS
TIMER #4
0 min
PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 01/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



51.1 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

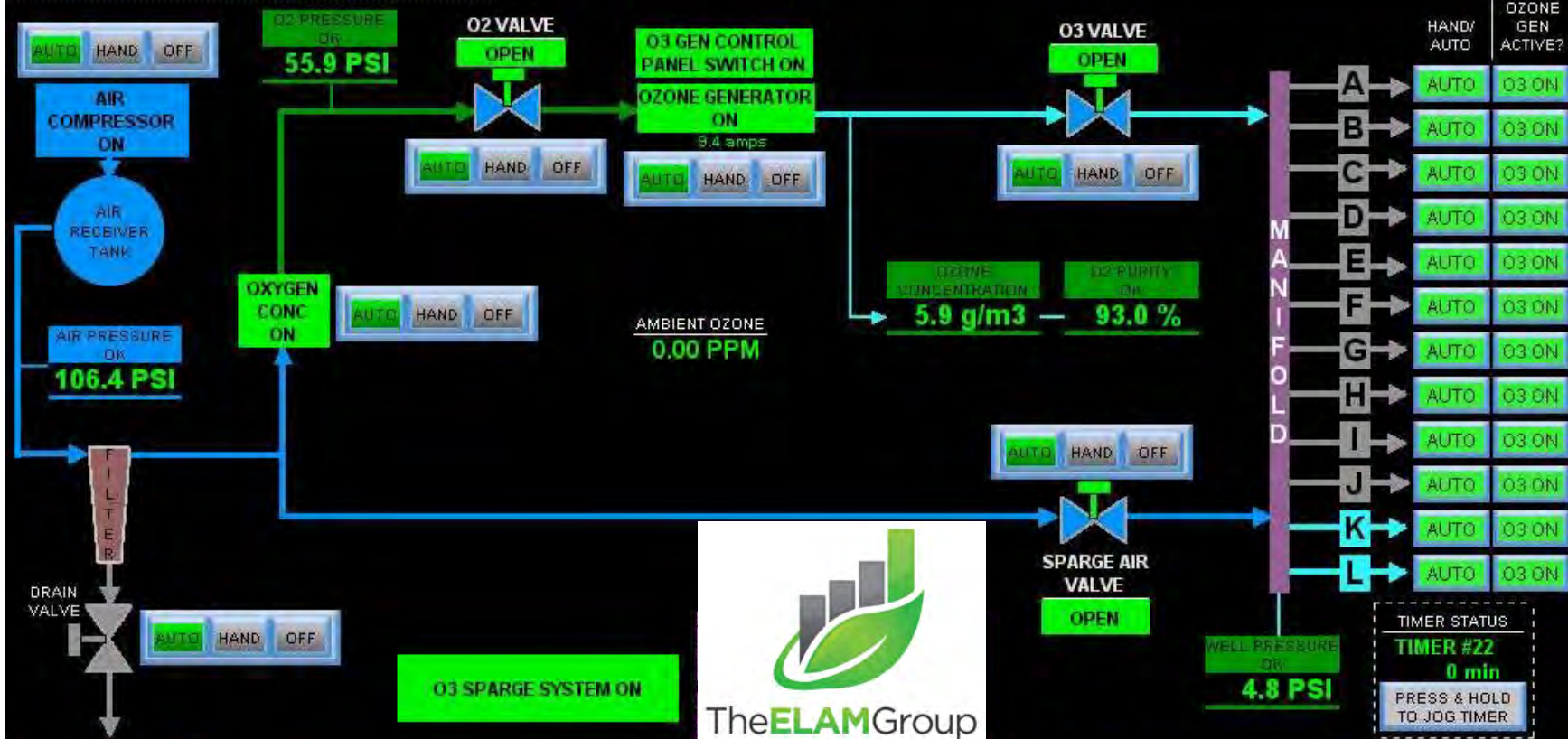
59.0 degF

AUTO

HAND:

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 01/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

53.6 degF

AUTO HAND OFF

REAR
EXHAUST
FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.4 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
124.4 PSI

O2 PRESSURE
OK
56.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
6.0 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

WELL PRESSURE
OK
5.3 PSI

TIMER STATUS
TIMER #16
0 min
PRESS & HOLD
TO JOG TIMER

23:55:00 02/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

O3 SPARGE SYSTEM ON



REAR TLR TEMP

51.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.5 PSI

O2 PRESSURE
OK
54.2 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

O3 VALVE
OPEN

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

MANIFOLD

OZONE
CONCENTRATION
6.1 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO

HAND

OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
3.1 PSI

TIMER STATUS

TIMER #10

0 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.6 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.6 PSI

O2 PRESSURE OK
55.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.2 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.2 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON

WELL PRESSURE OK
3.1 PSI

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD TO JOG TIMER



23:55:00 02/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

52.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
123.3 PSI

O2 PRESSURE OK
55.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
4.7 PSI

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD TO JOG TIMER

23:55:00 02/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

FILTER
DRAIN VALVE
AUTO HAND OFF

REAR TLR TEMP

52.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.4 PSI

O2 PRESSURE OK
57.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.2 g/m3

O2 PURITY OK
93.0 %

FILTER
DRAIN VALVE
AUTO HAND OFF

O3 SPARGE SYSTEM ON



AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
5.3 PSI

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD TO JOG TIMER

23:55:00 02/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

52.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
124.0 PSI

O2 PRESSURE OK
54.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
3.0 PSI

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
110.3 PSI

O2 PRESSURE OK
54.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.2 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.3 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

WELL PRESSURE OK
2.9 PSI

TIMER STATUS
TIMER #4
0 min
PRESS & HOLD TO JOG TIMER

23:55:00 02/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.



O3 SPARGE SYSTEM ON

FILTER
DRAIN VALVE
AUTO HAND OFF

REAR TLR TEMP

50.6 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.6 PSI

O2 PRESSURE OK
56.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.3 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
4.7 PSI

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



23:55:00 02/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

55.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
119.0 PSI

O2 PRESSURE
OK
57.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
6.2 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

WELL PRESSURE
OK
5.3 PSI

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

106.2 PSI

O2 PRESSURE OK

55.9 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.5 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION

6.4 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

3.1 PSI

TIMER STATUS

TIMER #10

0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

114.6 PSI

O2 PRESSURE
OK

55.9 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.5 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
6.3 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
3.0 PSI

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

54.3 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

100.7 PSI

O2 PRESSURE OK

56.7 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

8.4 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION

6.4 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #22

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK

4.9 PSI

SPARGE AIR VALVE

OPEN

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.1 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.7 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
118.0 PSI

O2 PRESSURE OK
57.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.5 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

2/14/23 - File Missing



REAR TLR TEMP

50.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.4 PSI

O2 PRESSURE
OK
56.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
6.4 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

FILTER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
3.0 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD
TO JOG TIMER

23:55:00 02/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.6 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

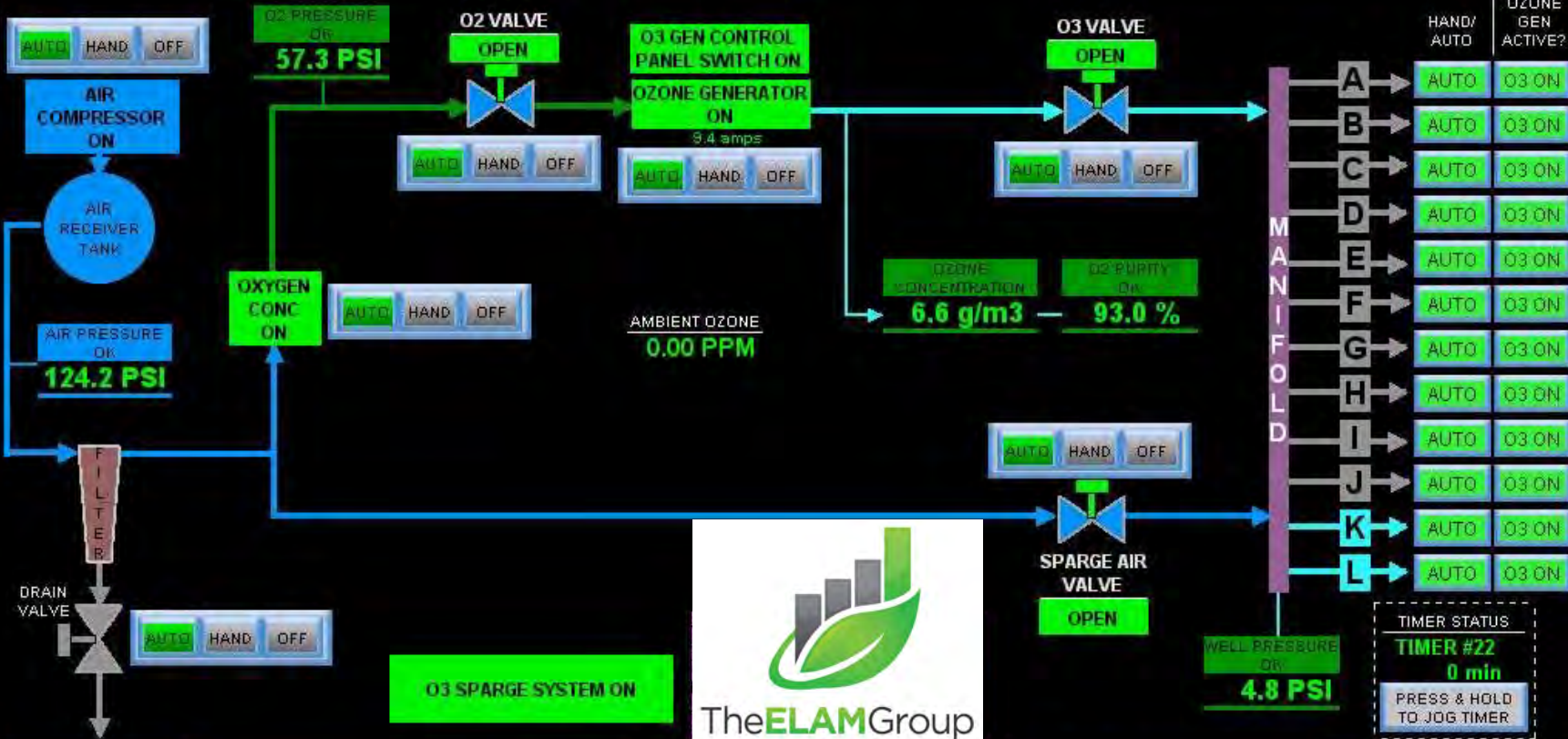
OZONE SPARGE

FRONT TLR TEMP

58.0 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF



23:55:00 02/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

50.2 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.4 PSI

O2 PRESSURE OK
57.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.6 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A B C D E F G H I J K L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.2 PSI

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
119.6 PSI

O2 PRESSURE
OK
56.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
6.6 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
3.0 PSI

TIMER STATUS

TIMER #10

0 min

PRESS & HOLD
TO JOG TIMER

23:55:00 02/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



The ELAM Group

O3 SPARGE SYSTEM ON

DRAIN
VALVE

FILTER

REAR TLR TEMP

51.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
123.0 PSI

O2 PRESSURE
OK
56.5 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
6.7 g/m3

O3 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
2.8 PSI

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD
TO JOG TIMER



TheELAMGroup

23:55:00 02/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.2 PSI

O2 PRESSURE
OK
57.6 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

O3 VALVE
OPEN

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

MANIFOLD

OZONE
CONCENTRATION
6.8 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO

HAND

OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.8 PSI

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

54.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
123.8 PSI

O2 PRESSURE OK
57.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.8 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A B C D E F G H I J K L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.3 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.4 PSI

O2 PRESSURE OK
55.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION 6.7 g/m3
O2 PURITY OK 93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A B C D E F G H I J K L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS
TIMER #10
0 min
PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
3.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

52.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

56.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
115.6 PSI

O2 PRESSURE OK
56.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
6.7 g/m3

O2 PURITY OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
3.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.5 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

56.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
123.8 PSI

O2 PRESSURE OK
57.5 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.7 g/m3

O3 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE OK
4.7 PSI



TheELAMGroup

23:55:00 02/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
108.3 PSI

O2 PRESSURE OK
59.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.9 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A B C D E F G H I J K L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.1 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

57.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.1 PSI

O2 PRESSURE OK
57.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.5 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.9 g/m3

O3 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
3.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

51.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
108.0 PSI

O2 PRESSURE
OK
57.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
7.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
2.9 PSI

O3 SPARGE SYSTEM ON



23:55:00 02/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

53.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
118.7 PSI

O2 PRESSURE OK
59.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.9 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
4.9 PSI

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 02/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.4 PSI

O2 PRESSURE OK
58.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
6.9 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
5.4 PSI

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.5 degF

AUTO HAND OFF

REAR
EXHAUST
FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.0 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
108.4 PSI

O2 PRESSURE
OK
59.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.5 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.01 PPM

OZONE
CONCENTRATION
-0.2 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
3.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

50.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
123.4 PSI

O2 PRESSURE
OK
58.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.01 PPM

OZONE
CONCENTRATION
-0.1 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
2.9 PSI

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD
TO JOG TIMER

23:55:00 03/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



The ELAM Group

O3 SPARGE SYSTEM ON

REAR TLR TEMP

51.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
108.7 PSI

O2 PRESSURE OK
58.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.01 PPM

OZONE CONCENTRATION
-0.1 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #22

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
4.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.7 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

60.4 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
118.0 PSI

O2 PRESSURE OK
60.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.01 PPM

OZONE CONCENTRATION
-0.1 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
5.4 PSI

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

50.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
123.1 PSI

O2 PRESSURE OK
58.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
0.0 g/m3

O2 PURITY OK
93.0 %

SPARGE AIR VALVE OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
2.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

53.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
105.9 PSI

O2 PRESSURE OK
59.8 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.01 PPM

OZONE CONCENTRATION
0.0 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE OK
2.8 PSI

23:55:00 03/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

51.0 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

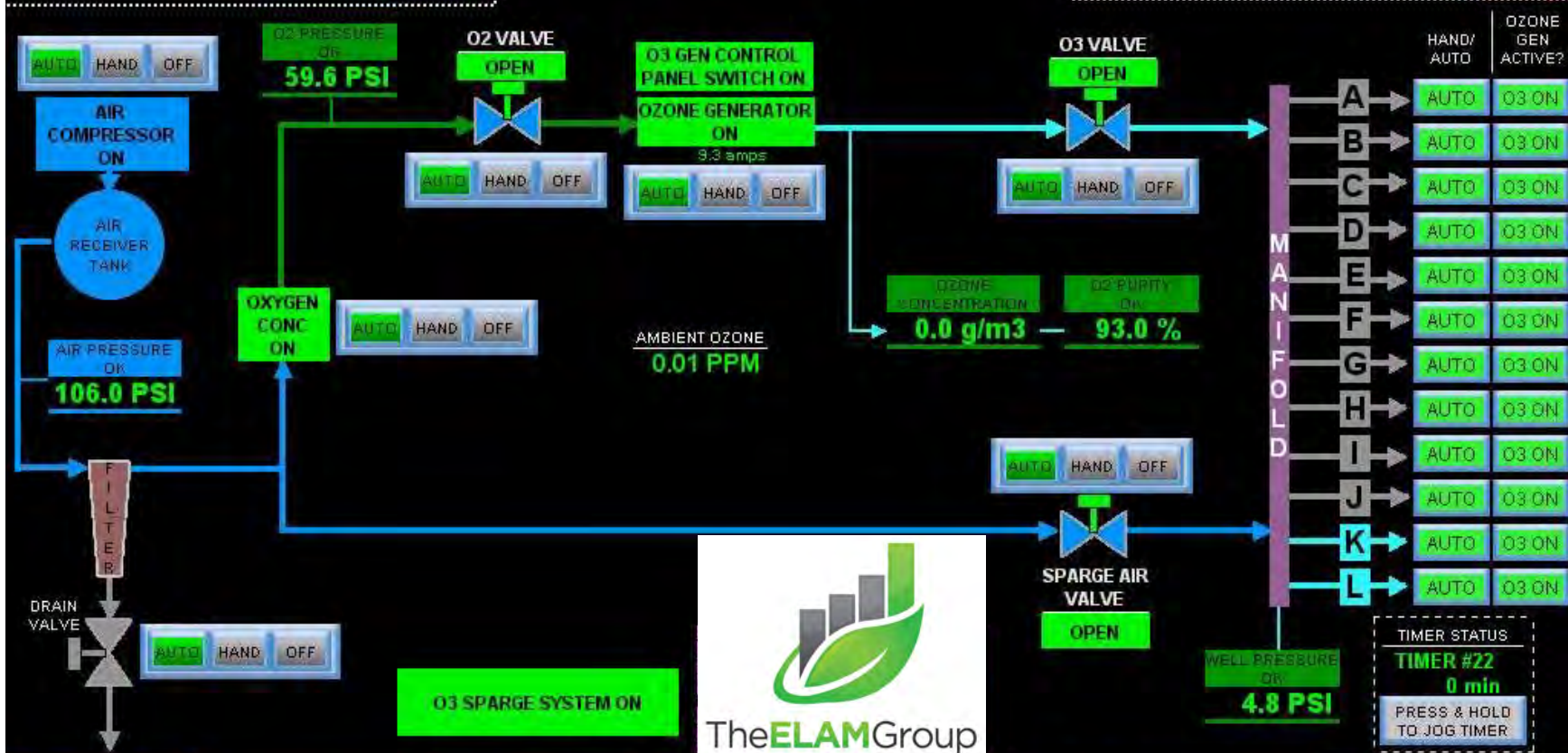
60.3 degF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 03/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

52.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
100.4 PSI

O2 PRESSURE OK
60.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
0.0 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.5 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
123.7 PSI

O2 PRESSURE
OK
59.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
0.1 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
2.8 PSI

TIMER STATUS

TIMER #10

0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

3/11/23- File Missing



3/12/23 - File Missing



3/13/23 - File Missing



REAR TLR TEMP

51.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
112.2 PSI

O2 PRESSURE
OK
67.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
112.1 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

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O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
2.7 PSI

TIMER STATUS

TIMER #10

0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.2 PSI

O2 PRESSURE
OK
68.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

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AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

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O3 ON

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O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
2.7 PSI

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
104.6 PSI

O2 PRESSURE
OK
68.2 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.1 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.6 PSI

TIMER STATUS

TIMER #22

0 min

PRESS & HOLD
TO JOG TIMER



23:55:00 03/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

58.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
111.2 PSI

O2 PRESSURE OK
68.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
97.0 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
5.1 PSI

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

58.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.1 PSI

O2 PRESSURE
OK
68.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
96.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
2.6 PSI

HAND/
AUTO

OZONE
GEN
ACTIVE?

A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD
TO JOG TIMER

FILTER
DRAIN VALVE
AUTO HAND OFF

O3 SPARGE SYSTEM ON



23:55:00 03/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

59.1 degF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.3 degF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.0 PSI

O2 PRESSURE OK
67.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
97.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
2.6 PSI

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.7 PSI

O2 PRESSURE
OK
68.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.4 g/m3

O2 PURITY
OK
93.0 %

FILTER
DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.6 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD
TO JOG TIMER

23:55:00 03/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

54.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.9 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.5 amps

O3 VALVE
OPEN

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

MANIFOLD

OZONE
CONCENTRATION
100.6 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.2 PSI

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

59.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
113.8 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
96.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
2.6 PSI

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.3 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
120.6 PSI

O2 PRESSURE OK
68.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.5 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
2.6 PSI

TIMER STATUS

TIMER #4
0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

49.8 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.5 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.5 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
4.5 PSI

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 03/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

50.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.5 PSI

O2 PRESSURE OK
69.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.5 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
104.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
5.2 PSI

TIMER STATUS

TIMER #16
0 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

FILTER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.4 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.4 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.5 PSI

O2 PRESSURE OK
69.1 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.4 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.6 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
2.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

54.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.3 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

O3 VALVE
OPEN

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

MANIFOLD

OZONE
CONCENTRATION
101.2 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
2.7 PSI

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

61.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.6 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.3 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.3 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.5 PSI

TIMER STATUS

TIMER #22

0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

56.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.7 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

112.2 PSI

O2 PRESSURE OK

68.9 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

8.4 amps

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

AMBIENT OZONE

0.00 PPM

OZONE CONCENTRATION

99.8 g/m3

O2 PURITY OK

93.0 %

HAND/AUTO

OZONE GEN ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

MANIFOLD

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

5.2 PSI

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

52.7 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.6 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.8 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.7 g/m3

O3 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
2.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.3 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

120.6 PSI

O2 PRESSURE OK

68.9 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

8.4 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE

0.00 PPM

OZONE CONCENTRATION

104.0 g/m3

O2 PURITY OK

93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #4

0 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK

2.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 03/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
123.5 PSI

O2 PRESSURE
OK
69.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.5 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

WELL PRESSURE
OK
4.6 PSI

TIMER STATUS

TIMER #22
0 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 04/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

53.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.5 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.5 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #16

0 min

PRESS & HOLD
TO JOG TIMER

23:55:00 04/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

WELL PRESSURE
OK
5.2 PSI

REAR TLR TEMP

50.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
115.9 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.5 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
103.9 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A B C D E F G H I J K L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #10
0 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE OK
2.7 PSI



23:55:00 04/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

50.3 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.3 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
116.5 PSI

O2 PRESSURE OK
69.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.6 g/m3

O2 PURITY OK
93.0 %

SPARGE AIR VALVE
OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
6.0 PSI

TIMER STATUS

TIMER #17
18 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

54.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

117.4 PSI

O2 PRESSURE OK

69.1 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION 104.2 g/m3

O2 PURITY OK 93.0 %

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #11

18 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK

4.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
122.8 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
103.6 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #5
18 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
4.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.3 PSI

O2 PRESSURE
OK
69.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.5 g/m3

O3 PURITY
OK
93.0 %

FILTER
DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.6 PSI

MANIFOLD

HAND/ AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

TIMER STATUS
TIMER #23
18 min
PRESS & HOLD
TO JOG TIMER

23:55:00 04/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

56.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.5 PSI

O2 PRESSURE
OK
69.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
103.1 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17
18 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
5.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

54.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.8 PSI

O2 PRESSURE
OK
69.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
103.5 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #11

18 min

PRESS & HOLD
TO JOG TIMER

23:55:00 04/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

WELL PRESSURE
OK
4.6 PSI

REAR TLR TEMP

54.7 degF

AUTO HAND OFF

REAR
EXHAUST
FAN OFF

OZONE SPARGE

FRONT TLR TEMP

60.5 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
119.4 PSI

O2 PRESSURE
OK
69.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.9 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

HAND/ AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE
OK
4.9 PSI

TIMER STATUS

TIMER #5
18 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 04/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

51.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
122.5 PSI

O2 PRESSURE
OK
70.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
106.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

18 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
5.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
121.5 PSI

O2 PRESSURE
OK
69.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
103.5 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17

17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
5.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.3 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
108.7 PSI

O2 PRESSURE OK
69.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.0 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

WELL PRESSURE OK
4.7 PSI

TIMER STATUS

TIMER #11
17 min

PRESS & HOLD TO JOG TIMER

23:55:00 04/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.



O3 SPARGE SYSTEM ON

FILTER
DRAIN VALVE
AUTO HAND OFF

REAR TLR TEMP

56.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.2 PSI

O2 PRESSURE OK
69.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.9 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #5

17 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
4.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
101.2 PSI

O2 PRESSURE
OK
69.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.7 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.6 PSI

TIMER STATUS

TIMER #23

17 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

49.9 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
104.8 PSI

O2 PRESSURE OK
69.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.7 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.0 PSI

TIMER STATUS

TIMER #17
17 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
117.0 PSI

O2 PRESSURE
OK
69.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
4.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
108.8 PSI

O2 PRESSURE
OK
69.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #5

17 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.8 PSI

O2 PRESSURE
OK
70.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
105.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

17 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
5.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.1 PSI

O2 PRESSURE OK
70.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.3 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17
17 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
6.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

56.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.9 PSI

O2 PRESSURE
OK
70.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #11

17 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
4.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

60.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
119.7 PSI

O2 PRESSURE
OK
69.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
97.2 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

WELL PRESSURE
OK
4.6 PSI

TIMER STATUS
TIMER #5
17 min
PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
104.6 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.8 g/m3

O3 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.6 PSI

TIMER STATUS

TIMER #23

15 min

PRESS & HOLD
TO JOG TIMER



23:55:00 04/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



4/24/23 - File Missing



REAR TLR TEMP

52.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

53.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
83.0 PSI

O2 PRESSURE OK
59.2 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION

-2.0 g/m3

O2 PURITY OK

29.6 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC OFF

AUTO HAND OFF

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

WELL PRESSURE OK
0.0 PSI

TIMER STATUS

TIMER #7

21 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

56.0 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
82.3 PSI

O2 PRESSURE OK
55.5 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.2 g/m3

O2 PURITY OK
27.3 %

OXYGEN CONC OFF

AUTO HAND OFF

FILTER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR VALVE

CLOSED

WELL PRESSURE OK
0.0 PSI

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

TIMER STATUS

TIMER #1
21 min

PRESS & HOLD TO JOG TIMER

23:55:00 04/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

56.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
80.9 PSI

O2 PRESSURE OK
51.8 PSI

O2 VALVE CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.2 g/m3

O2 PURITY OK
25.5 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC OFF

AUTO HAND OFF

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

SPARGE AIR VALVE

CLOSED

WELL PRESSURE OK
0.0 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #19
21 min

PRESS & HOLD TO JOG TIMER

23:55:00 04/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

64.4 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.3 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
80.8 PSI

O2 PRESSURE OK
49.6 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.8 g/m3

O2 PURITY OK
26.9 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC OFF

AUTO HAND OFF

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

CLOSED

AUTO HAND OFF

O3 SPARGE SYSTEM ON

WELL PRESSURE OK
0.0 PSI

TIMER STATUS

TIMER #13

21 min

PRESS & HOLD TO JOG TIMER



23:55:00 04/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

65.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
79.6 PSI

O2 PRESSURE OK
47.0 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
-3.0 g/m3

O2 PURITY OK
25.3 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

WELL PRESSURE OK
0.1 PSI

TIMER STATUS

TIMER #7
21 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 04/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

57.0 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
77.5 PSI

O2 PRESSURE LOW ALARM
43.9 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.4 g/m3

O2 PURITY ON
23.5 %

OXYGEN CONC OFF

AUTO HAND OFF

FILTER
DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

SPARGE AIR VALVE

CLOSED

WELL PRESSURE ON
0.0 PSI

TIMER STATUS

TIMER #21
4 min

PRESS & HOLD TO JOG TIMER

23:55:00 04/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

59.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
100.0 PSI

O2 PRESSURE OK
67.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
94.0 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
4.5 PSI

TIMER STATUS

TIMER #3

6 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

71.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

78.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.3 PSI

O2 PRESSURE
OK
68.2 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN
CONC
ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
87.6 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #21
6 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE
OK
5.4 PSI



TheELAMGroup

23:55:00 05/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

69.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

77.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
116.7 PSI

O2 PRESSURE OK
69.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.7 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
86.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.0 PSI

TIMER STATUS

TIMER #15
6 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

58.2 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.1 PSI

O2 PRESSURE OK
69.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
97.8 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

TIMER STATUS

TIMER #9
6 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
4.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

57.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
118.6 PSI

O2 PRESSURE
OK
69.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.3 PSI

TIMER STATUS

TIMER #3
6 min

PRESS & HOLD
TO JOG TIMER

23:55:00 05/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

60.8 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.2 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.5 PSI

O2 PRESSURE
OK
69.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
94.3 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

HAND/ AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.7 PSI

TIMER STATUS

TIMER #21
6 min

PRESS & HOLD
TO JOG TIMER

23:55:00 05/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

O3 SPARGE SYSTEM ON



REAR TLR TEMP

62.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
99.6 PSI

O2 PRESSURE
OK
69.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.7 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
93.6 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.3 PSI

TIMER STATUS

TIMER #15
6 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

72.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.4 PSI

O2 PRESSURE
OK
70.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC
ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
93.2 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.5 PSI

TIMER STATUS

TIMER #9

6 min

PRESS & HOLD
TO JOG TIMER

23:55:00 05/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

62.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.8 PSI

O2 PRESSURE
OK
68.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.7 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
94.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.2 PSI

TIMER STATUS

TIMER #3
6 min

PRESS & HOLD
TO JOG TIMER

23:55:00 05/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

62.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.4 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.0 PSI

O2 PRESSURE LOW ALARM
2.0 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
-2.4 g/m3

O2 PURITY OK
27.2 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

WELL PRESSURE OK
0.0 PSI

TIMER STATUS
TIMER #17
4 min
PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 05/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

61.2 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
114.9 PSI

COMPRESSURE LOW ALARM
1.4 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.6 g/m3

DE PURITY LOW ALARM
20.2 %

OXYGEN CONC OFF

AUTO HAND OFF

FILTER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR VALVE

CLOSED

WELL PRESSURE ON
0.0 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #17
4 min

PRESS & HOLD TO JOG TIMER

23:55:00 05/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

69.0 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
113.2 PSI

O2 PRESSURE LOW ALARM
0.6 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
-3.1 g/m3

O2 PURITY LOW ALARM
20.6 %

MANIFOLD

A

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

WELL PRESSURE ON
0.0 PSI

TIMER STATUS

TIMER #17
4 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

72.7 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

74.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
111.1 PSI

O2 PRESSURE LOW ALARM
0.0 PSI

O2 VALVE
CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE
CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
-3.3 g/m3

O2 PURITY LOW ALARM
20.2 %

AUTO HAND OFF

SPARGE AIR VALVE
CLOSED

WELL PRESSURE OK
0.0 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #17
4 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 05/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

75.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

77.1 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
108.7 PSI

O2 PRESSURE LOW ALARM
0.0 PSI

O2 VALVE
CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-3.4 g/m3

O2 PURITY LOW ALARM
20.5 %

OXYGEN CONC OFF

AUTO HAND OFF

FILTER
DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

SPARGE AIR VALVE
CLOSED

WELL PRESSURE OK
0.0 PSI

TIMER STATUS
TIMER #17
4 min
PRESS & HOLD TO JOG TIMER

23:55:00 05/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

70.0 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

73.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE OK
105.3 PSI

COMPRESSOR LOW ALARM
0.0 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-3.2 g/m3

DE FURN LOW ALARM
20.8 %

OXYGEN CONC OFF

AUTO HAND OFF

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

SPARGE AIR VALVE

CLOSED

AUTO HAND OFF

WELL PRESSURE OK
0.0 PSI

TIMER STATUS

TIMER #17
4 min

PRESS & HOLD TO JOG TIMER

23:55:00 05/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

114.8 PSI

O2 PRESSURE
OK

66.5 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION

98.4 g/m3

O2 PURITY
OK

93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

AUTO

OZONE
GEN
ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

TIMER STATUS

TIMER #5

17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK

5.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

69.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.9 PSI

O2 PRESSURE
OK
67.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
5.8 PSI

TIMER STATUS

TIMER #23

17 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

5/18/23 - File Missing



REAR TLR TEMP

68.4 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.0 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.4 PSI

O2 PRESSURE
OK
67.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.0 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
4.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.4 PSI

O2 PRESSURE
OK
67.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.7 g/m3

O3 PURITY
OK
93.0 %

FILTER
DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.9 PSI

HAND/
AUTO

OZONE
GEN
ACTIVE?

A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

TIMER STATUS

TIMER #5
17 min

PRESS & HOLD
TO JOG TIMER

23:55:00 05/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

58.0 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

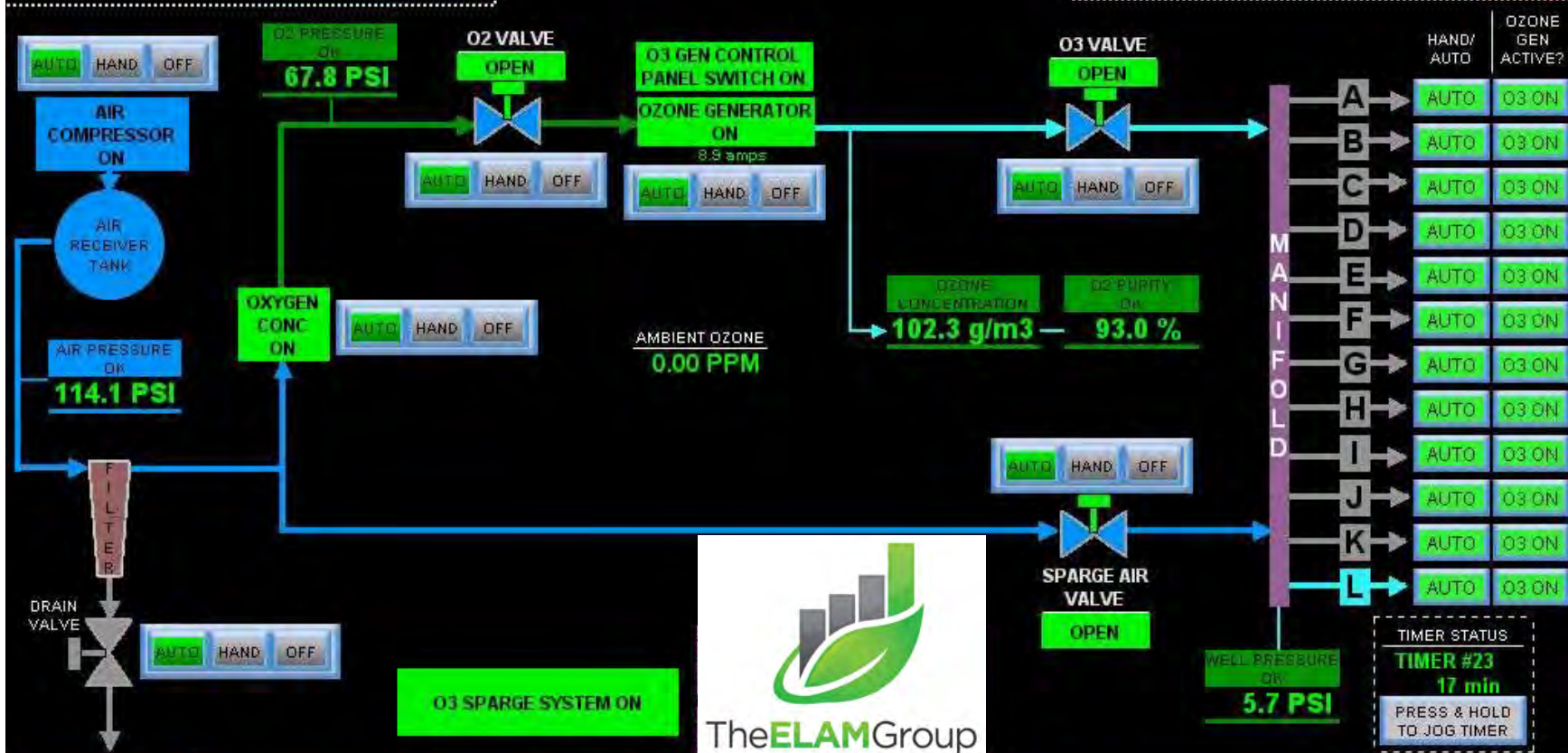
66.6 degF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 05/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

60.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
99.1 PSI

O2 PRESSURE OK
67.9 PSI

O2 VALVE OPEN

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

O3 VALVE OPEN

MANIFOLD

HAND/AUTO

OZONE GEN ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

DRAIN VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.5 g/m3

O2 PURITY OK
93.0 %

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.0 PSI

TIMER STATUS

TIMER #17
17 min

PRESS & HOLD TO JOG TIMER



23:55:00 05/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

62.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
100.5 PSI

O2 PRESSURE
OK
68.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC
ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
4.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.9 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
120.3 PSI

O2 PRESSURE OK
67.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.8 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
4.9 PSI

TIMER STATUS

TIMER #5
17 min

PRESS & HOLD TO JOG TIMER

FILTER
DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



23:55:00 05/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

68.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
104.4 PSI

O2 PRESSURE OK
68.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.5 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

17 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
5.8 PSI

O3 SPARGE SYSTEM ON



23:55:00 05/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

70.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN ON

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
100.8 PSI

O2 PRESSURE
OK
67.9 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
101.1 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17

17 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.1 PSI

23:55:00 05/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.8 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.6 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.9 PSI

O2 PRESSURE
OK
67.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.7 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
4.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

62.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
102.5 PSI

O2 PRESSURE OK
68.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
102.6 g/m3

O2 PURITY OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
4.9 PSI

TIMER STATUS

TIMER #5

17 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 05/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

58.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.1 PSI

O2 PRESSURE
OK
68.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
103.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17

17 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

56.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE LOW 53.3 PSI

O2 PRESSURE OK 60.4 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION -1.2 g/m3

O3 PURITY OK 57.3 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

CLOSED

WELL PRESSURE OK 0.1 PSI

TIMER STATUS

TIMER #23

14 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 05/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

58.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE LOW
51.5 PSI

O2 PRESSURE OK
53.9 PSI

O2 VALVE CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.2 g/m3

O3 PURITY OK
40.3 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC OFF

AUTO HAND OFF

FILTER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR VALVE
CLOSED

WELL PRESSURE OK
0.1 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #23
14 min

PRESS & HOLD TO JOG TIMER

23:55:00 06/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

61.2 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE LOW
50.0 PSI

O2 PRESSURE
48.8 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
-2.4 g/m3

O3 PURITY
33.6 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

O3 SPARGE SYSTEM ON

WELL PRESSURE
0.1 PSI

TIMER STATUS

TIMER #23
14 min

PRESS & HOLD TO JOG TIMER



23:55:00 06/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

60.7 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE LOW
48.5 PSI

OXYGEN CONC OFF

AUTO HAND OFF

O2 PRESSURE LOW ALARM
44.8 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.4 g/m3

O2 PURITY ON
29.2 %

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

WELL PRESSURE ON
0.0 PSI

TIMER STATUS

TIMER #23
14 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

58.0 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR OFF

AIR RECEIVER TANK

AIR PRESSURE LOW
47.0 PSI

O2 PRESSURE LOW ALARM
41.4 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OZONE CONCENTRATION
-2.3 g/m3

O2 PURITY ON
27.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC OFF

AUTO HAND OFF

FILTER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

SPARGE AIR VALVE

CLOSED

WELL PRESSURE ON
0.0 PSI

TIMER STATUS

TIMER #23
14 min

PRESS & HOLD TO JOG TIMER

23:55:00 06/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

65.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
90.4 PSI

O2 PRESSURE OK
68.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
101.3 g/m3

O2 PURITY OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
5.2 PSI

TIMER STATUS

TIMER #11

1 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 06/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

70.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
89.4 PSI

O2 PRESSURE
OK
68.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #5
1 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
5.2 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

72.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
94.5 PSI

O2 PRESSURE
OK
69.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
101.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

1 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.6 PSI

23:55:00 06/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

71.6 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
96.4 PSI

O2 PRESSURE OK
69.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
101.1 g/m3

O2 PURITY OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.6 PSI

TIMER STATUS

TIMER #17
1 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

60.4 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.8 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.6 PSI

O2 PRESSURE
OK
68.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.5 g/m3

O2 PURITY
OK
93.0 %

FILTER

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
4.5 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
1 min

PRESS & HOLD
TO JOG TIMER

23:55:00 06/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

63.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
104.7 PSI

O2 PRESSURE
OK
68.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #5

1 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE
OK
4.5 PSI



23:55:00 06/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

66.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
100.4 PSI

O2 PRESSURE
OK
68.2 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

1 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

71.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
101.7 PSI

O2 PRESSURE OK
68.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

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AUTO

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AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

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O3 ON

O3 ON

O3 ON

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O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.1 PSI

TIMER STATUS

TIMER #17

1 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

63.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.0 PSI

O2 PRESSURE OK
68.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.3 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
1 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
4.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

63.3 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

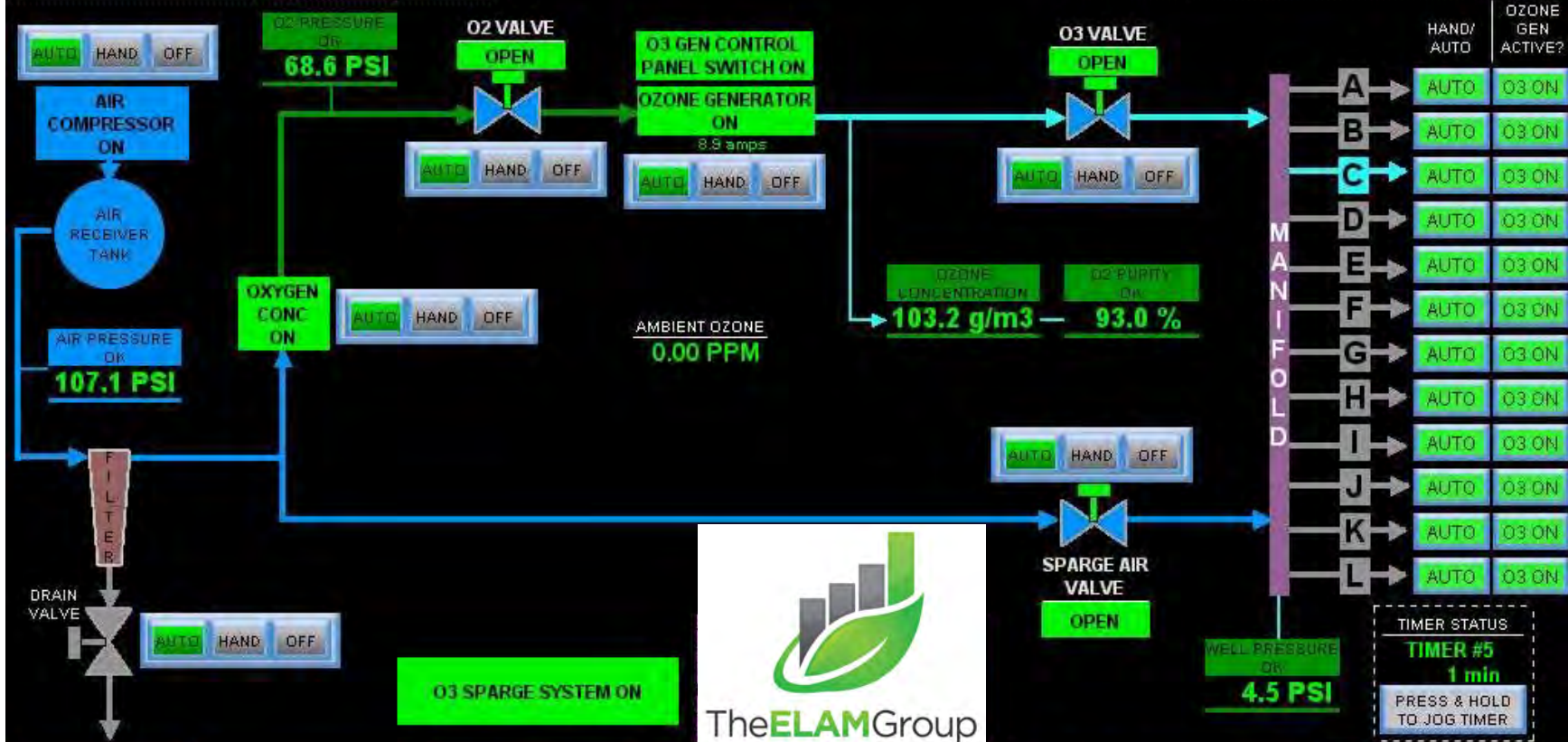
67.6 degF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 06/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

66.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.0 PSI

O2 PRESSURE
OK
68.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.8 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

1 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
110.2 PSI

O2 PRESSURE OK
68.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.2 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17
1 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
6.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

58.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

114.0 PSI

O2 PRESSURE OK

68.4 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION

98.7 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

4.4 PSI

TIMER STATUS

TIMER #11

1 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

58.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.1 PSI

O2 PRESSURE
OK
59.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
71.5 g/m3

O2 PURITY
OK
89.6 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #5

1 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

59.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

119.0 PSI

O2 PRESSURE OK

65.8 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

8.8 amps

AUTO HAND OFF

AMBIENT OZONE

0.00 PPM

O3 VALVE

OPEN

AUTO HAND OFF

OZONE CONCENTRATION

99.2 g/m3

O2 PURITY OK

93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

TIMER STATUS

TIMER #15

3 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK

8.9 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

60.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

114.8 PSI

O2 PRESSURE
OK

65.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION

98.6 g/m3

O2 PURITY
OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK

7.4 PSI



TheELAMGroup

23:55:00 06/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

65.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
110.9 PSI

O2 PRESSURE OK
65.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
98.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.0 PSI

TIMER STATUS

TIMER #3
3 min

PRESS & HOLD TO JOG TIMER

23:55:00 06/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

DRAIN VALVE

FILTER

REAR TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.8 PSI

O2 PRESSURE
OK
65.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.9 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.5 PSI

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

68.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.4 PSI

O2 PRESSURE OK
66.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
99.0 g/m3

O2 PURITY ON
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
9.0 PSI

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

65.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
118.6 PSI

O2 PRESSURE OK
65.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
98.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.4 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

69.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.7 PSI

O2 PRESSURE
OK
65.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.0 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

69.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
99.3 PSI

O2 PRESSURE
OK
65.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
99.1 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

70.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

114.4 PSI

O2 PRESSURE OK

66.0 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION

99.6 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

DRAIN VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

8.9 PSI

TIMER STATUS

TIMER #15

3 min

PRESS & HOLD TO JOG TIMER



23:55:00 06/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

71.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

120.8 PSI

O2 PRESSURE OK

65.9 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE

0.00 PPM

OZONE CONCENTRATION

98.6 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

7.4 PSI

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.7 PSI

O2 PRESSURE
OK
65.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.1 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.0 PSI

O2 PRESSURE
OK
65.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
8.6 PSI

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 06/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.1 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
99.5 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.9 PSI

SPARGE AIR
VALVE
OPEN

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

69.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.2 PSI

O2 PRESSURE
OK
65.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.4 PSI

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

69.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.6 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.5 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER



23:55:00 07/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

73.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.8 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.0 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.7 PSI

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

76.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

73.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.8 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
9.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

72.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
112.4 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.5 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD
TO JOG TIMER



23:56:00 07/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

68.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.3 PSI

O2 PRESSURE
OK
66.1 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.0 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #3
3 min

PRESS & HOLD
TO JOG TIMER



23:55:00 07/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

68.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.7 PSI

O2 PRESSURE OK
66.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.0 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
8.5 PSI

23:55:00 07/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

DRAIN VALVE



AUTO HAND OFF

REAR TLR TEMP

68.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.6 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

MANIFOLD

OZONE
CONCENTRATION
99.9 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.9 PSI

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 07/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

68.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.5 PSI

O2 PRESSURE
OK
65.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.9 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
7.3 PSI

23:55:00 07/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

68.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.2 PSI

O2 PRESSURE
OK
65.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.9 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

69.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN ON

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.5 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
100.2 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

70.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
112.2 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

	HAND/ AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

WELL PRESSURE
OK
8.9 PSI

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

23:55:00 07/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

O3 SPARGE SYSTEM ON



REAR TLR TEMP

72.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
116.0 PSI

O2 PRESSURE OK
66.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
99.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.4 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

23:55:00 07/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

71.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.8 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

113.3 PSI

O2 PRESSURE OK

66.2 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

9.0 amps

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION

99.1 g/m3

O2 PURITY OK

93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK

7.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

70.5 degF

HAND

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

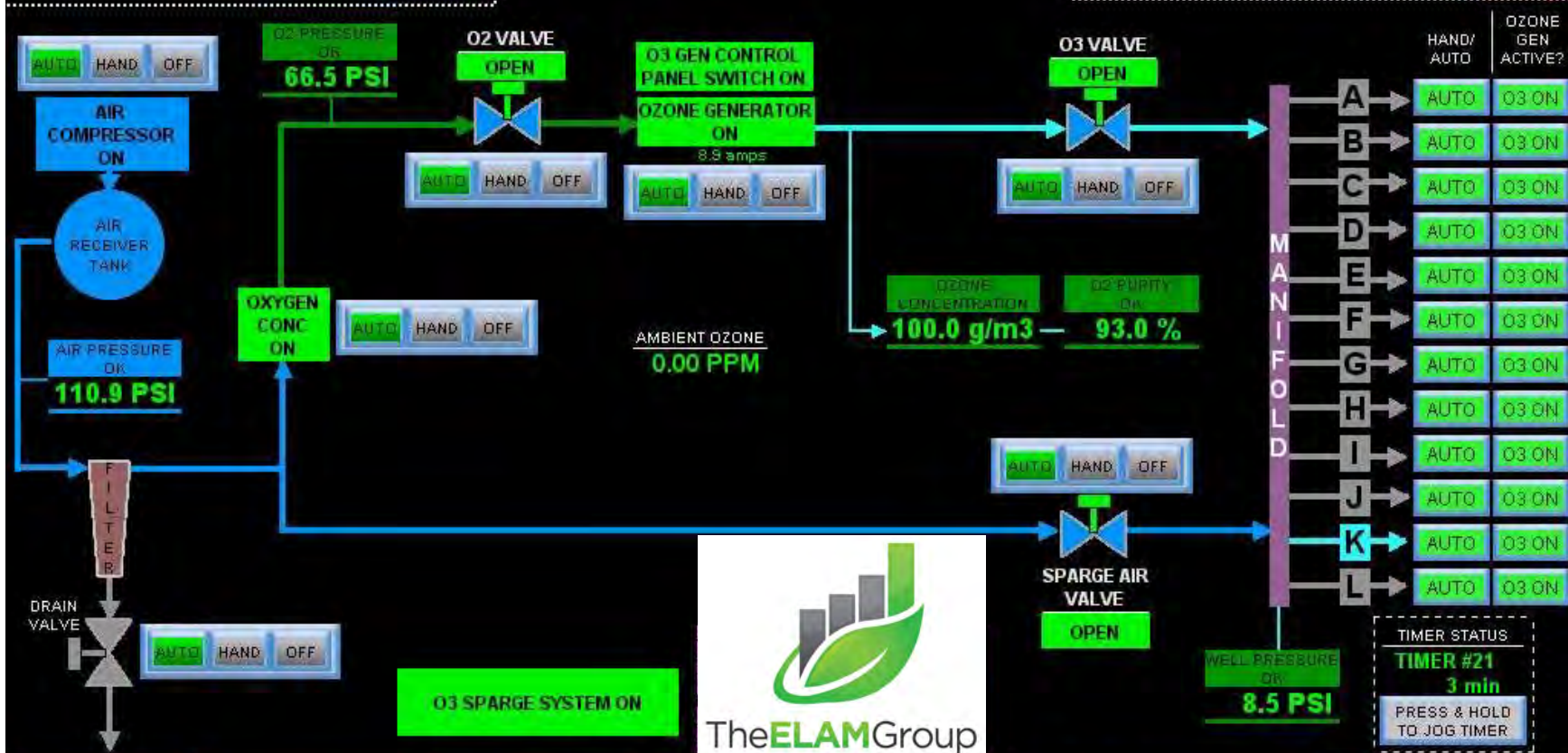
70.1 degF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 07/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

66.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.7 PSI

O2 PRESSURE
OK
66.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.6 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

70.7 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.0 PSI

O2 PRESSURE OK
66.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
99.3 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.3 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

75.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

72.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.3 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

OZONE
CONCENTRATION
98.8 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.1 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC

07/20/23 File Missing



07/21/23 File Missing



REAR TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.3 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
100.1 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC
ON

AUTO HAND OFF

FILTER

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.3 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD
TO JOG TIMER

23:55:00 07/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

70.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.3 PSI

O2 PRESSURE
OK
66.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #3
3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE
OK
7.0 PSI



23:55:00 07/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

65.4 degF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.0 degF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
118.9 PSI

O2 PRESSURE OK
66.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.7 g/m3

O3 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
8.3 PSI

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD TO JOG TIMER

23:55:00 07/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

DRAIN VALVE

FILTER

REAR TLR TEMP

66.2 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.1 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.7 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.4 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
99.4 PSI

O2 PRESSURE
OK
66.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.9 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.4 PSI

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

70.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.9 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

OZONE
CONCENTRATION
99.7 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #3
3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 07/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

70.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.4 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.7 PSI

O2 PRESSURE OK
66.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.1 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
8.4 PSI

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

67.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
104.8 PSI

O2 PRESSURE
OK
66.6 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.3 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
8.8 PSI

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER



23:55:00 07/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

67.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.3 PSI

O2 PRESSURE
OK
66.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.6 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.3 PSI

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

68.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.2 PSI

O2 PRESSURE OK
66.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
99.9 g/m3

O2 PURITY ON
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.0 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 07/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

70.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.9 PSI

O2 PRESSURE
OK
66.6 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

OZONE
CONCENTRATION
100.8 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.4 PSI

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

70.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

71.0 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
111.9 PSI

O2 PRESSURE OK
67.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.7 g/m3

O3 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
8.8 PSI

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD TO JOG TIMER

23:55:00 08/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

O3 SPARGE SYSTEM ON



REAR TLR TEMP

71.5 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.8 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.9 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

WELL PRESSURE
OK
7.4 PSI

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

72.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.0 PSI

O2 PRESSURE
OK
66.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE
OK
7.1 PSI



23:55:00 08/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

69.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
99.6 PSI

O2 PRESSURE
OK
66.5 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

	HAND/ AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

FILTER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.0 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.5 PSI

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD
TO JOG TIMER



23:55:00 08/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

70.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.8 PSI

O2 PRESSURE
OK
66.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

71.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

70.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
105.8 PSI

O2 PRESSURE OK
66.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.4 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A B C D E F G H I J K L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
7.2 PSI

O3 SPARGE SYSTEM ON



23:55:00 08/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

69.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
118.4 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
102.3 PSI

O2 PRESSURE OK
66.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.7 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
8.4 PSI

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD TO JOG TIMER

23:55:00 08/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

O3 SPARGE SYSTEM ON



REAR TLR TEMP

67.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
112.8 PSI

O2 PRESSURE
OK
66.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
101.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

70.5 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.9 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN ON

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.9 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
100.3 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC ON

AUTO HAND OFF

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.2 PSI

TIMER STATUS
TIMER #9
3 min
PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 08/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

71.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.4 PSI

O2 PRESSURE
OK
66.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.5 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

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O3 ON

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O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

23:55:00 08/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

76.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

73.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
119.6 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
99.3 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

FILTER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.2 PSI

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

AUTO

HAND

OFF

OZONE
GEN
ACTIVE?

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD
TO JOG TIMER

23:55:00 08/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

77.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

74.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.5 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
98.1 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.6 PSI

O3 SPARGE SYSTEM ON



23:55:00 08/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

80.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

76.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.7 PSI

O2 PRESSURE OK
66.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.1 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
96.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.0 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

79.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

76.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
108.7 PSI

O2 PRESSURE OK
66.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
96.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

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O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.8 PSI

TIMER STATUS

TIMER #3
3 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

73.4 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

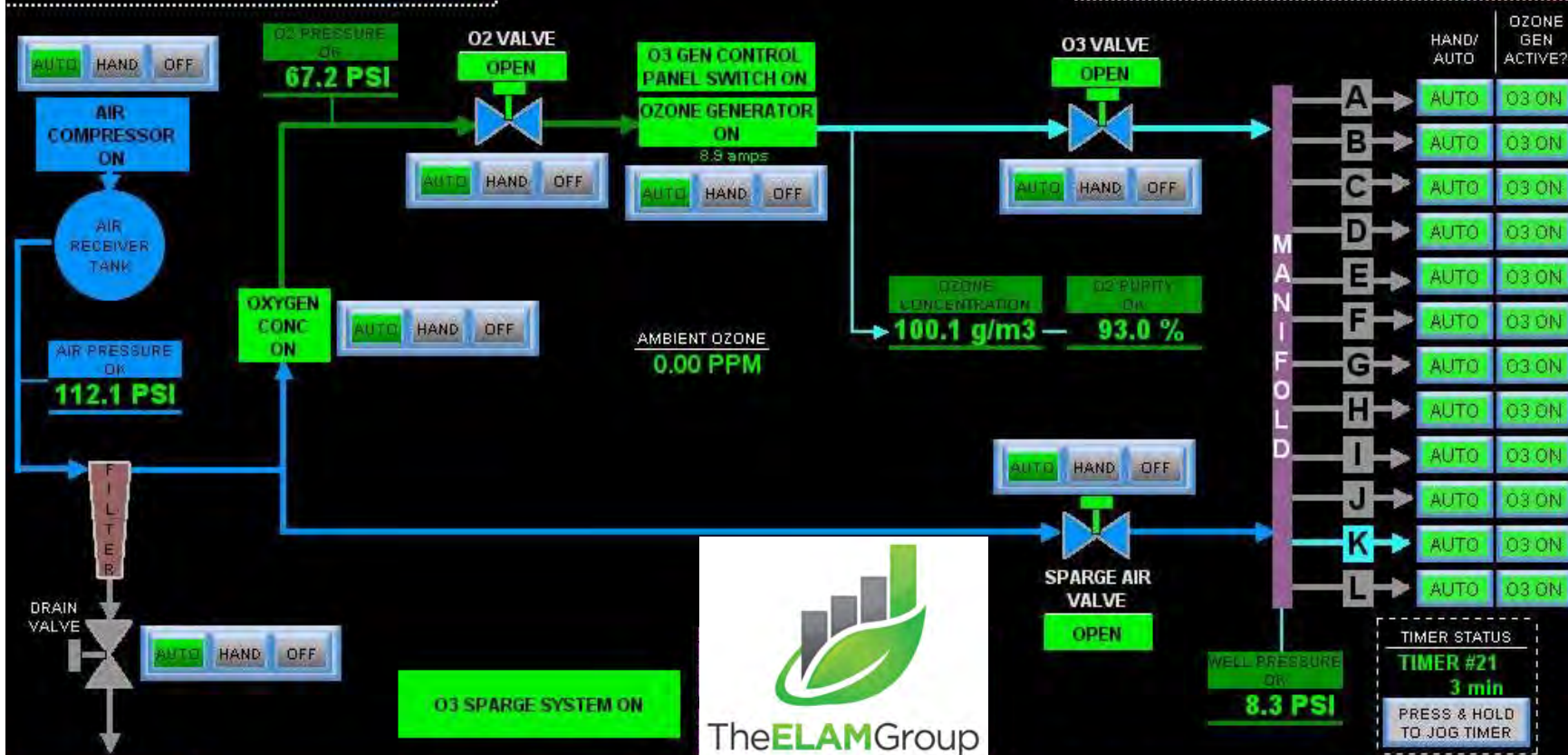
71.4 degF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 08/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

68.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.4 PSI

O2 PRESSURE OK
67.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.4 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

3 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
8.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

68.8 degF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.0 degF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.3 PSI

O2 PRESSURE OK
66.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.9 g/m3

O3 PURITY ON
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

23:55:00 08/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

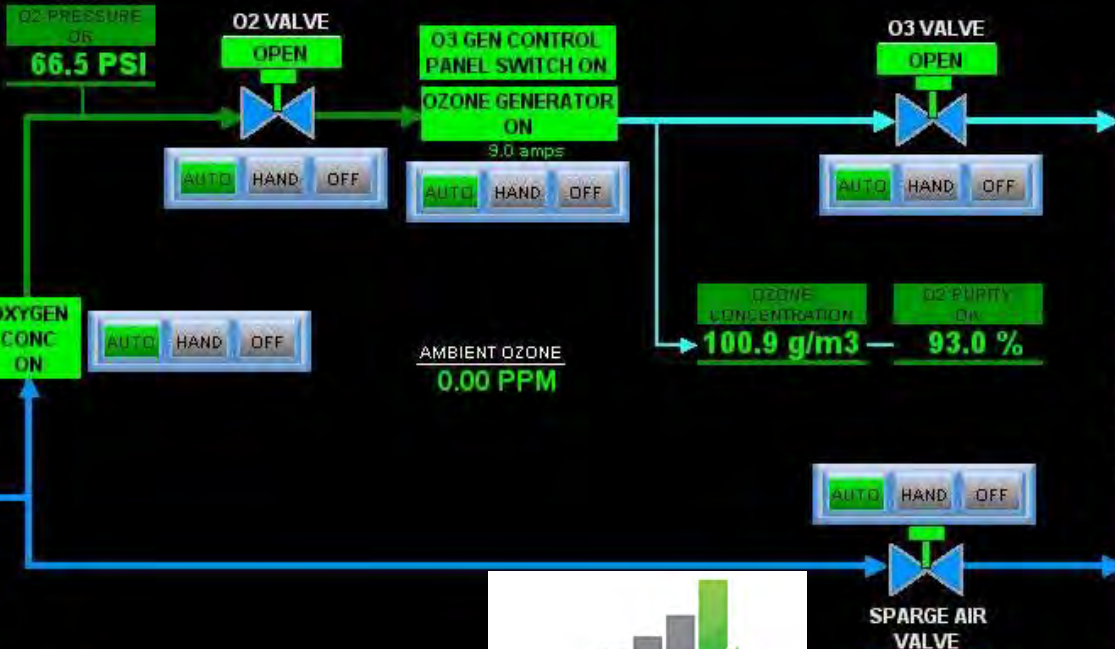
ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON



REAR TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.2 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.1 PSI

O2 PRESSURE OK
66.8 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
100.9 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.9 PSI

TIMER STATUS

TIMER #3
3 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

66.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.1 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
101.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21

3 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
8.2 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
113.0 PSI

O2 PRESSURE
OK
67.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

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J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

66.2 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.5 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.3 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.2 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.2 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD
TO JOG TIMER

23:55:00 08/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

O3 SPARGE SYSTEM ON



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

68.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.0 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.6 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

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O3 ON

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O3 ON

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O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.9 PSI

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

68.9 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

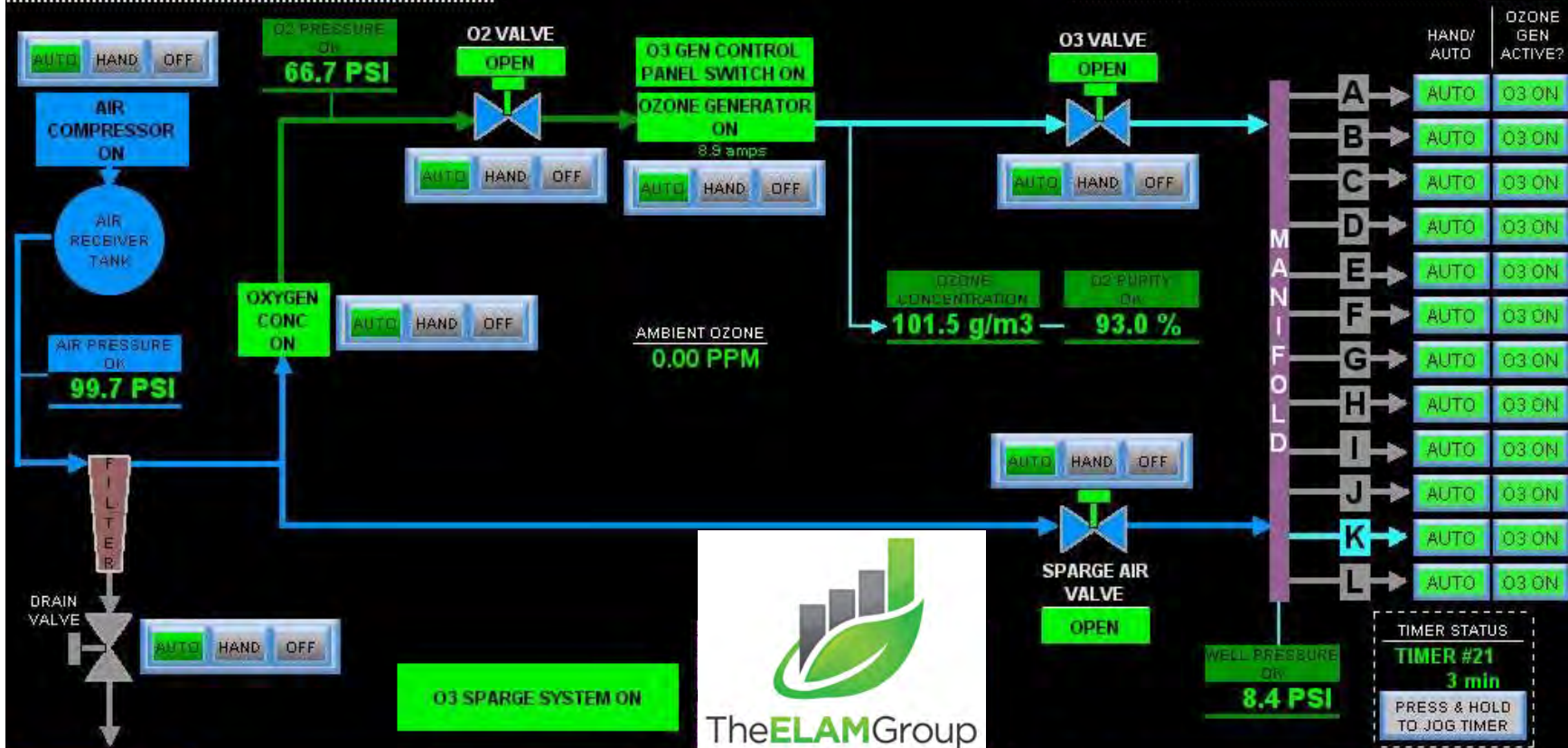
68.3 degF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 08/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

73.0 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.6 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
101.0 PSI

O2 PRESSURE
OK
67.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #15
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

71.7 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.0 PSI

O2 PRESSURE OK
67.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #9
3 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

FILTER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

68.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.5 PSI

O2 PRESSURE
OK
66.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
100.5 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
108.0 PSI

O2 PRESSURE
OK
66.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

69.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.5 PSI

O2 PRESSURE
OK
66.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

3 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
8.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 08/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

65.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.3 PSI

O2 PRESSURE
OK
66.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.2 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.1 PSI

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

23:55:00 08/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

69.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.1 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.1 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

71.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN ON

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
118.6 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
102.2 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.2 PSI

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

64.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.5 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.5 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

63.5 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.5 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.4 PSI

O2 PRESSURE
OK
66.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.4 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9

3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

64.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.0 PSI

O2 PRESSURE
OK
66.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
101.3 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

WELL PRESSURE
OK
6.7 PSI

TIMER STATUS

TIMER #3

2 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

66.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.9 PSI

O2 PRESSURE
OK
67.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.4 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
3 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.4 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
2 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

65.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.1 PSI

O2 PRESSURE
OK
66.6 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

FILTER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.5 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.1 PSI

TIMER STATUS

TIMER #9

2 min

PRESS & HOLD
TO JOG TIMER



TheELAMGroup

23:55:00 09/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.5 PSI

O2 PRESSURE OK
66.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.1 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

2 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
6.7 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

70.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

69.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.2 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.4 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.2 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

65.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.4 PSI

O2 PRESSURE
OK
66.9 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

B

C

D

E

F

G

H

I

J

K

L

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
8.5 PSI

TIMER STATUS

TIMER #15
2 min

PRESS & HOLD
TO JOG TIMER



23:55:00 09/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

63.9 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.7 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.7 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.0 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.9 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

65.8 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.0 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.7 PSI

O2 PRESSURE
OK
66.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.0 g/m3

O2 PURITY
OK
93.0 %

FILTER
DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR
VALVE
OPEN

MANIFOLD

HAND/ AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE
OK
6.6 PSI

TIMER STATUS
TIMER #3
2 min
PRESS & HOLD
TO JOG TIMER

23:55:00 09/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

65.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.1 PSI

O2 PRESSURE
OK
66.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.7 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.3 PSI

O2 PRESSURE
OK
67.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

TIMER STATUS

TIMER #15
2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

64.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
121.1 PSI

O2 PRESSURE
OK
67.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.9 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

68.1 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

68.4 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
118.5 PSI

O2 PRESSURE OK
66.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.3 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.6 PSI

TIMER STATUS

TIMER #3
2 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

61.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.4 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21

2 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
8.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

62.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
112.2 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.9 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

OZONE
GEN
ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

TIMER STATUS

TIMER #15

2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.5 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

59.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.9 PSI

O2 PRESSURE
OK
67.0 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO

O3 ON

B

AUTO

O3 ON

C

AUTO

O3 ON

D

AUTO

O3 ON

E

AUTO

O3 ON

F

AUTO

O3 ON

G

AUTO

O3 ON

H

AUTO

O3 ON

I

AUTO

O3 ON

J

AUTO

O3 ON

K

AUTO

O3 ON

L

AUTO

O3 ON

OZONE
CONCENTRATION
102.0 g/m3

O2 PURITY
OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #9
2 min

PRESS & HOLD
TO JOG TIMER



23:55:00 09/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

60.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.6 PSI

O2 PRESSURE
OK
67.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.2 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

WELL PRESSURE
OK
6.7 PSI

TIMER STATUS

TIMER #3
2 min

PRESS & HOLD
TO JOG TIMER

23:55:00 09/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

64.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.4 PSI

O2 PRESSURE
OK
67.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
2 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
8.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

61.4 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

104.0 PSI

O2 PRESSURE OK

67.1 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

O3 VALVE

OPEN

AUTO HAND OFF

OZONE CONCENTRATION

102.4 g/m3

O2 PURITY OK

93.0 %

OXYGEN CONC ON

AUTO HAND OFF

FILTER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



SPARGE AIR VALVE

OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
8.4 PSI

TIMER STATUS

TIMER #15
2 min

PRESS & HOLD TO JOG TIMER

23:55:00 09/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP
62.2 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP
67.1 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
99.0 PSI

O2 PRESSURE
OK
66.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.8 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.9 PSI

TIMER STATUS

TIMER #9
2 min

PRESS & HOLD
TO JOG TIMER



23:55:00 09/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

60.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
100.5 PSI

O2 PRESSURE OK
66.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.5 PSI

TIMER STATUS

TIMER #3

2 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

60.2 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.3 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.2 PSI

O2 PRESSURE
OK
66.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
103.0 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.9 PSI

TIMER STATUS

TIMER #21
2 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

60.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.4 PSI

O2 PRESSURE
OK
66.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.9 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

58.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

108.2 PSI

O2 PRESSURE OK

66.7 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON

OZONE GENERATOR ON

8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION

101.7 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

6.8 PSI

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

57.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.4 PSI

O2 PRESSURE
OK
66.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.3 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

57.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.0 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
101.5 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
7.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 09/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

58.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

120.8 PSI

O2 PRESSURE
OK

67.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

OPEN

AUTO HAND OFF

OZONE
CONCENTRATION

102.2 g/m3

O2 PURITY
OK

93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK

7.5 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

61.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
118.0 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.4 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

61.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.1 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.4 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.5 PSI

23:55:00 10/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

62.3 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.9 PSI

O2 PRESSURE OK
67.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

61.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.2 PSI

O2 PRESSURE
OK
67.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
102.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

63.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

112.8 PSI

O2 PRESSURE
OK

67.1 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON

OZONE GENERATOR
ON

8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION

101.9 g/m3

O2 PURITY
OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK

6.8 PSI

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

67.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.6 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
102.2 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.6 PSI

23:55:00 10/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

63.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.2 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.5 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.2 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

61.9 degF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.5 degF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
99.8 PSI

O2 PRESSURE OK
66.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OZONE CONCENTRATION
103.2 g/m3

O2 PURITY OK
93.0 %

AMBIENT OZONE
0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.6 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

58.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
100.1 PSI

O2 PRESSURE
OK
66.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.2 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.8 PSI

O3 SPARGE SYSTEM ON



23:55:00 10/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

58.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.8 PSI

O2 PRESSURE OK
67.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.4 PSI

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

57.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.8 PSI

O2 PRESSURE OK
67.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.1 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

61.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
108.3 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.8 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.5 PSI

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

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O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP
62.3 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP
66.4 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.9 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.7 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.7 PSI

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD
TO JOG TIMER



23:55:00 10/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

61.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.7 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
102.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.4 PSI

23:55:00 10/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

59.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
118.0 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.7 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.8 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

59.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.7 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
120.6 PSI

O2 PRESSURE OK
67.5 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.3 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



23:55:00 10/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

63.2 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.1 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
122.5 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.0 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

65.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

67.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
106.7 PSI

O2 PRESSURE
OK
67.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
102.3 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

60.2 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

115.8 PSI

O2 PRESSURE OK

67.1 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION

102.5 g/m3

O2 PURITY OK

93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

WELL PRESSURE OK

7.4 PSI

TIMER STATUS

TIMER #15

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

59.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.1 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.7 PSI

O2 PRESSURE OK
67.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.0 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
6.5 PSI

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.3 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.6 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.3 PSI

O2 PRESSURE
OK
67.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.1 PSI

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

57.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
121.3 PSI

O2 PRESSURE
OK
67.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
101.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
6.9 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.7 PSI

O2 PRESSURE
OK
67.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

	HAND/ AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

WELL PRESSURE
OK
7.5 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.9 PSI

O2 PRESSURE
OK
67.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.7 PSI

23:55:00 10/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.3 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

103.0 PSI

O2 PRESSURE OK
68.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.4 PSI

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

49.9 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

57.6 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.9 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

53.3 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
120.9 PSI

O2 PRESSURE OK
68.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.5 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.6 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
122.0 PSI

O2 PRESSURE OK
68.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.6 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
6.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

50.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.9 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.7 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
6.4 PSI

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 10/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
102.8 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.6 g/m3

O3 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.3 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD
TO JOG TIMER

23:55:00 10/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

56.8 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.3 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

113.8 PSI

O2 PRESSURE OK

68.4 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OXYGEN CONC ON

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

OZONE CONCENTRATION

101.9 g/m3

O2 PURITY OK

93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

26 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK

7.3 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

59.6 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.9 PSI

O2 PRESSURE OK
68.2 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.2 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD TO JOG TIMER

WELL PRESSURE OK
6.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

59.3 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.5 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
110.2 PSI

O2 PRESSURE OK
68.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.1 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.2 PSI

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

59.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

65.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.9 PSI

O2 PRESSURE
OK
67.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.6 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

57.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.6 PSI

O2 PRESSURE
OK
67.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.4 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

57.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.9 PSI

O2 PRESSURE
OK
67.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
101.8 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC ON

AUTO HAND OFF

FILTER

DRAIN
VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.4 PSI

MANIFOLD

	HAND/ AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD
TO JOG TIMER

23:55:00 11/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

55.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.3 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
115.3 PSI

O2 PRESSURE OK
68.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.1 PSI

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 11/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

50.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
111.7 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.1 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
107.4 PSI

O2 PRESSURE
OK
68.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.1 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

55.4 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
111.1 PSI

O2 PRESSURE OK
68.1 PSI

O2 VALVE OPEN

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

O3 VALVE OPEN

HAND/AUTO OZONE GEN ACTIVE?

A

B

C

D

E

F

G

H

I

J

K

L

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

AUTO O3 ON

OXYGEN CONC ON

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.4 g/m3

O2 PURITY OK
93.0 %

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.6 PSI

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.4 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.6 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.3 PSI

O2 PRESSURE OK
68.4 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
103.7 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON

WELL PRESSURE OK
6.2 PSI



TheELAMGroup

23:55:00 11/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
112.8 PSI

O2 PRESSURE
OK
68.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.0 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

55.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
122.3 PSI

O2 PRESSURE
OK
68.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.9 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.3 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.5 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.5 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.4 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
6.7 PSI

TIMER STATUS
TIMER #9
26 min
PRESS & HOLD TO JOG TIMER

23:55:00 11/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

O3 SPARGE SYSTEM ON



REAR TLR TEMP

51.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.6 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.5 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

WELL PRESSURE
OK
6.2 PSI

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

55.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

101.2 PSI

O2 PRESSURE
OK

68.7 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION

105.4 g/m3

O2 PURITY
OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK

7.2 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

54.5 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
108.5 PSI

O2 PRESSURE OK
68.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.4 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



23:55:00 11/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

54.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.8 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
103.2 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/18/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
111.2 PSI

O2 PRESSURE
OK
68.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
106.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.2 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.1 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.2 PSI

O2 PRESSURE OK
68.9 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.7 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.1 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD TO JOG TIMER

23:55:00 11/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

DRAIN VALVE



REAR TLR TEMP

55.1 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.9 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
114.5 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.8 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE OPEN

MANIFOLD

HAND/AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

WELL PRESSURE OK
7.3 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD TO JOG TIMER

23:55:00 11/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

DRAIN VALVE

FILTER

REAR TLR TEMP

50.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.5 PSI

O2 PRESSURE
OK
68.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.7 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.5 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.8 degF

AUTO HAND OFF

REAR
EXHAUST
FAN OFF

OZONE SPARGE

FRONT TLR TEMP

59.5 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
109.6 PSI

O2 PRESSURE
OK
68.9 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
106.0 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

HAND/ AUTO	OZONE GEN ACTIVE?
A → AUTO	O3 ON
B → AUTO	O3 ON
C → AUTO	O3 ON
D → AUTO	O3 ON
E → AUTO	O3 ON
F → AUTO	O3 ON
G → AUTO	O3 ON
H → AUTO	O3 ON
I → AUTO	O3 ON
J → AUTO	O3 ON
K → AUTO	O3 ON
L → AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.2 PSI

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
111.4 PSI

O2 PRESSURE OK
69.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.8 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

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O3 ON

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O3 ON

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O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

55.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
113.2 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.5 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.4 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

23:55:00 11/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

49.9 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.2 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
103.0 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.9 g/m3

O3 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.6 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

49.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
115.4 PSI

O2 PRESSURE OK
69.3 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.1 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.2 PSI

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

51.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.5 PSI

O2 PRESSURE
OK
69.3 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
104.5 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

AUTO

OZONE
GEN
ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.1 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
121.0 PSI

O2 PRESSURE
OK
69.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.3 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.4 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.2 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

56.9 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
106.1 PSI

O2 PRESSURE OK
69.0 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.6 g/m3

O2 PURITY OK
93.0 %

AUTO HAND OFF

SPARGE AIR VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

WELL PRESSURE OK
6.6 PSI

TIMER STATUS
TIMER #9
26 min
PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 11/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

52.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.9 PSI

O2 PRESSURE
OK
68.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
6.2 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/01/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

51.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.6 PSI

O2 PRESSURE
OK
69.0 PSI

O2 VALVE
OPEN

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

O3 VALVE
OPEN

MANIFOLD

HAND/
AUTO

OZONE
GEN
ACTIVE?

A

AUTO O3 ON

B

AUTO O3 ON

C

AUTO O3 ON

D

AUTO O3 ON

E

AUTO O3 ON

F

AUTO O3 ON

G

AUTO O3 ON

H

AUTO O3 ON

I

AUTO O3 ON

J

AUTO O3 ON

K

AUTO O3 ON

L

AUTO O3 ON

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.8 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.1 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD
TO JOG TIMER



23:55:00 12/02/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

55.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

62.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.0 PSI

O2 PRESSURE
OK
68.8 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE

OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
103.1 g/m3

O2 PURITY
OK
93.0 %

OXYGEN
CONC ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #15

26 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
7.2 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/03/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

59.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
110.8 PSI

O2 PRESSURE
OK
68.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
102.2 g/m3

O3 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #9

26 min

PRESS & HOLD
TO JOG TIMER

DRAIN
VALVE

AUTO HAND OFF

AUTO

HAND

OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/04/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

55.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

63.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.9 PSI

O2 PRESSURE
OK
68.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.8 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #3

26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK
6.0 PSI

23:55:00 12/05/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
113.8 PSI

O2 PRESSURE
OK
68.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
103.4 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
6.8 PSI

TIMER STATUS

TIMER #21

26 min

PRESS & HOLD

TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/06/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
109.3 PSI

O2 PRESSURE OK
68.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.9 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #15

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/07/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

51.4 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

58.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
110.8 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.0 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.5 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.4 PSI

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

AUTO HAND OFF

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/08/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.2 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
112.2 PSI

O2 PRESSURE OK
68.7 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
106.2 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
6.2 PSI

TIMER STATUS

TIMER #3
26 min

PRESS & HOLD TO JOG TIMER

DRAIN VALVE

FILTER

O3 SPARGE SYSTEM ON



23:55:00 12/09/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

55.9 degF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

64.0 degF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
107.2 PSI

O2 PRESSURE OK
68.1 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
101.7 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
6.8 PSI

TIMER STATUS

TIMER #21
26 min

PRESS & HOLD TO JOG TIMER

23:55:00 12/10/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

DRAIN VALVE



REAR TLR TEMP

51.6 degF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.7 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
117.7 PSI

O2 PRESSURE OK
68.6 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
105.6 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

	HAND/AUTO	OZONE GEN ACTIVE?
A	AUTO	O3 ON
B	AUTO	O3 ON
C	AUTO	O3 ON
D	AUTO	O3 ON
E	AUTO	O3 ON
F	AUTO	O3 ON
G	AUTO	O3 ON
H	AUTO	O3 ON
I	AUTO	O3 ON
J	AUTO	O3 ON
K	AUTO	O3 ON
L	AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK
7.2 PSI

TIMER STATUS

TIMER #15
26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/11/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION TECHNOLOGIES, LLC.

REAR TLR TEMP

49.9 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.5 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.7 PSI

O2 PRESSURE
OK
68.7 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
9.0 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.0 g/m3

O2 PURITY
OK
93.0 %

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/ AUTO	OZONE GEN ACTIVE?
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #9
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
6.4 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/12/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

49.8 degF

AUTO HAND OFF

REAR EXHAUST FAN OFF

OZONE SPARGE

FRONT TLR TEMP

50.5 degF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE LOW 5.3 PSI

O2 PRESSURE ON 63.7 PSI

O2 VALVE

CLOSED

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR OFF
0.1 amps

AUTO HAND OFF

O3 VALVE

CLOSED

AUTO HAND OFF

OXYGEN CONC OFF

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION 5.7 g/m3

O3 PURITY ON 79.8 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR VALVE

CLOSED

WELL PRESSURE ON 0.0 PSI

TIMER STATUS

TIMER #3

16 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/13/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

52.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.3 PSI

O2 PRESSURE
OK
65.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.9 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.2 PSI

TIMER STATUS

TIMER #11
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/14/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
117.7 PSI

O2 PRESSURE
OK
65.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
104.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #5

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.3 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/15/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

55.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.7 PSI

O2 PRESSURE
OK
66.4 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.4 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #23

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.8 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/16/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

50.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK

116.6 PSI

O2 PRESSURE
OK

66.5 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION

105.3 g/m3

O2 PURITY
OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE
OK

8.0 PSI

TIMER STATUS

TIMER #17

26 min

PRESS & HOLD
TO JOG TIMER

23:55:00 12/17/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

12/18/23 File Missing



REAR TLR TEMP

53.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

60.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
108.9 PSI

O2 PRESSURE
OK
65.6 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
102.6 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #5

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.3 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/19/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.0 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.2 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
105.5 PSI

O2 PRESSURE
OK
66.1 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
104.1 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.7 PSI

TIMER STATUS

TIMER #23
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/20/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG

OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

51.6 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.9 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
121.2 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.0 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

WELL PRESSURE
OK
7.8 PSI

TIMER STATUS

TIMER #17

26 min

PRESS & HOLD
TO JOG TIMER

23:55:00 12/21/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC



O3 SPARGE SYSTEM ON

REAR TLR TEMP

53.0 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

56.4 degF

AUTO HAND OFF

AUTO HAND OFF

AUTO HAND OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

128.8 PSI

O2 PRESSURE OK

66.2 PSI

O2 VALVE

OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

O3 VALVE

OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE 0.00 PPM

OZONE CONCENTRATION

104.2 g/m3

O2 PURITY OK

93.0 %

SPARGE AIR VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 ON

O3 SPARGE SYSTEM ON



TheELAMGroup

WELL PRESSURE OK

7.1 PSI

TIMER STATUS

TIMER #11

26 min

PRESS & HOLD TO JOG TIMER

23:55:00 12/22/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

REAR TLR TEMP

52.0 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

55.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK

114.8 PSI

O2 PRESSURE OK

66.7 PSI

O2 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE

OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION

104.2 g/m3

O2 PURITY OK

93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/AUTO

AUTO

OZONE GEN ACTIVE?

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR VALVE

OPEN

WELL PRESSURE OK

7.3 PSI

TIMER STATUS

TIMER #5

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 12/23/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

55.3 degF

AUTO HAND OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

57.4 degF

AUTO HAND OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
122.4 PSI

O2 PRESSURE
OK
66.8 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.5 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.8 PSI

TIMER STATUS

TIMER #23
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/24/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.

REAR TLR TEMP

53.8 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

58.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
118.0 PSI

O2 PRESSURE
OK
66.3 PSI

O2 VALVE
OPEN

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

O3 VALVE
OPEN

AUTO HAND OFF

OXYGEN
CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
105.0 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #17

26 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
7.9 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/25/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

53.1 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

59.5 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
120.1 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.4 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
103.0 g/m3

O3 PURITY
OK
93.0 %

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON
AUTO	O3 ON

TIMER STATUS

TIMER #11
26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/26/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

56.2 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR EXHAUST FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT EXHAUST FAN OFF

AUTO HAND OFF

AIR COMPRESSOR ON

AIR RECEIVER TANK

AIR PRESSURE OK
125.7 PSI

O2 PRESSURE OK
66.2 PSI

O2 VALVE OPEN

AUTO HAND OFF

O3 GEN CONTROL PANEL SWITCH ON
OZONE GENERATOR ON
9.3 amps

AUTO HAND OFF

O3 VALVE OPEN

AUTO HAND OFF

OXYGEN CONC ON

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

OZONE CONCENTRATION
102.4 g/m3

O2 PURITY OK
93.0 %

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/AUTO

OZONE GEN ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

SPARGE AIR VALVE OPEN

WELL PRESSURE OK
7.1 PSI

TIMER STATUS

TIMER #5

26 min

PRESS & HOLD TO JOG TIMER

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/27/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION TECHNOLOGIES, LLC

59.7 degF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

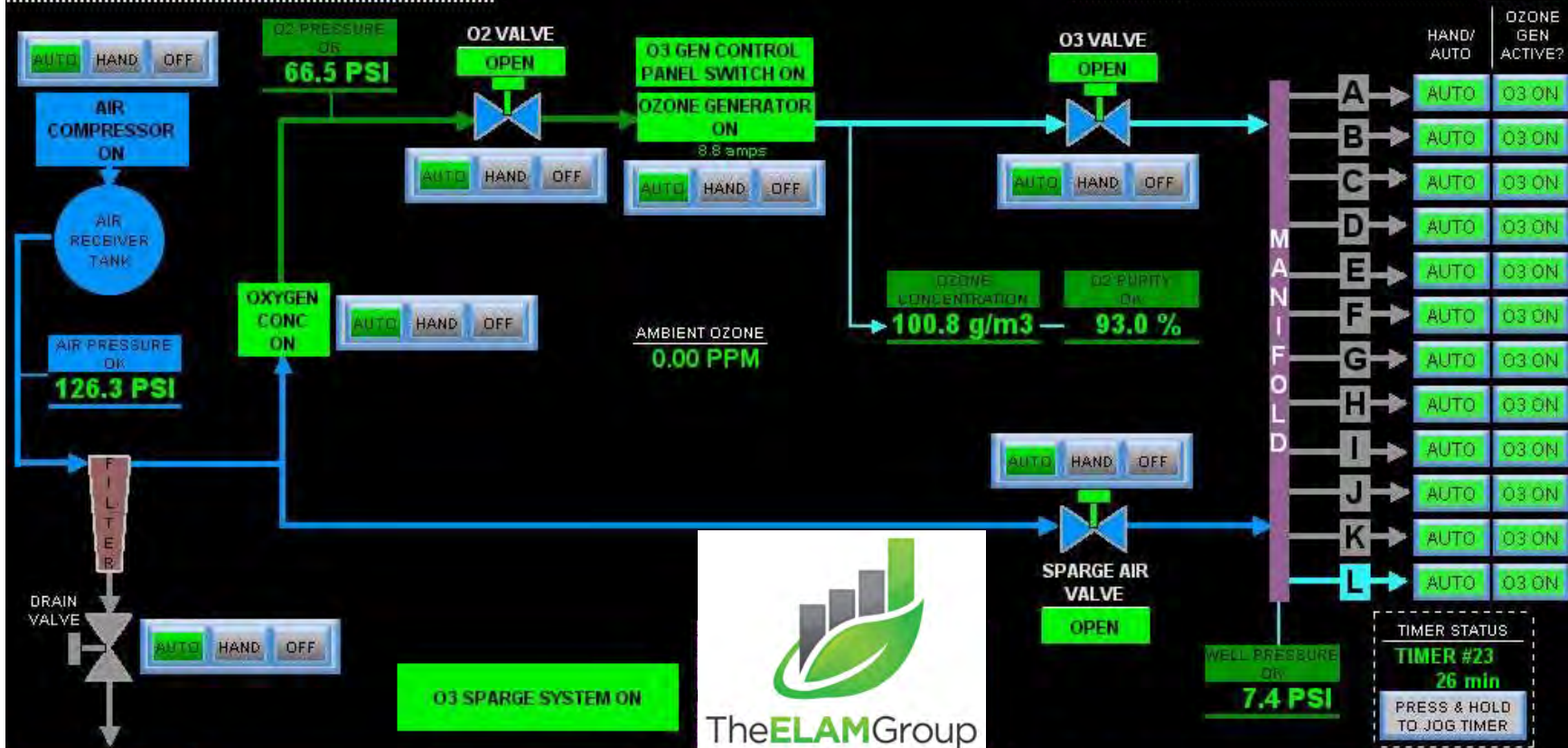
64.9 degF

AUTO

HAND:

OFF

FRONT
EXHAUST
FAN OFF



23:55:00 12/28/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

60.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

66.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
114.9 PSI

O2 PRESSURE
OK
66.2 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.7 amps

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OZONE
CONCENTRATION
99.7 g/m3

O2 PURITY
OK
93.0 %

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE
OPEN

WELL PRESSURE
OK
7.7 PSI

TIMER STATUS

TIMER #17
26 min

PRESS & HOLD
TO JOG TIMER

O3 SPARGE SYSTEM ON



23:55:00 12/29/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



REAR TLR TEMP

55.4 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

61.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
115.1 PSI

O2 PRESSURE
OK
66.0 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO HAND OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AMBIENT OZONE
0.00 PPM

O3 VALVE
OPEN

AUTO HAND OFF

OZONE
CONCENTRATION
102.2 g/m3

O3 PURITY
OK
93.0 %

OXYGEN
CONC
ON

AUTO HAND OFF

AUTO HAND OFF

SPARGE AIR
VALVE
OPEN

MANIFOLD

A
B
C
D
E
F
G
H
I
J
K
L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #11

26 min

PRESS & HOLD
TO JOG TIMER

WELL PRESSURE
OK
7.0 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/30/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC

REAR TLR TEMP

52.3 degF

AUTO HAND OFF

AUTO

HAND

OFF

REAR
EXHAUST
FAN ON

OZONE SPARGE

FRONT TLR TEMP

56.7 degF

AUTO HAND OFF

AUTO

HAND

OFF

FRONT
EXHAUST
FAN OFF

AUTO HAND OFF

AIR
COMPRESSOR
ON

AIR
RECEIVER
TANK

AIR PRESSURE
OK
116.7 PSI

O2 PRESSURE
OK
66.5 PSI

O2 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

O3 GEN CONTROL
PANEL SWITCH ON
OZONE GENERATOR
ON
8.8 amps

AUTO HAND OFF

AUTO

HAND

OFF

AMBIENT OZONE
0.00 PPM

OXYGEN
CONC ON

AUTO HAND OFF

AUTO

HAND

OFF

O3 VALVE
OPEN

AUTO HAND OFF

AUTO

HAND

OFF

OZONE
CONCENTRATION
104.5 g/m3

O2 PURITY
OK
93.0 %

AUTO HAND OFF

AUTO

HAND

OFF

SPARGE AIR
VALVE

OPEN

MANIFOLD

A

B

C

D

E

F

G

H

I

J

K

L

HAND/
AUTO

OZONE
GEN
ACTIVE?

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

AUTO

O3 ON

TIMER STATUS

TIMER #5

26 min

PRESS & HOLD

TO JOG TIMER

WELL PRESSURE
OK
7.3 PSI

O3 SPARGE SYSTEM ON



TheELAMGroup

23:55:00 12/31/23

OVERVIEW

TIMERS

PARAMETERS

TREND LOG

ALARM LOG



OXIDATION
TECHNOLOGIES, LLC.



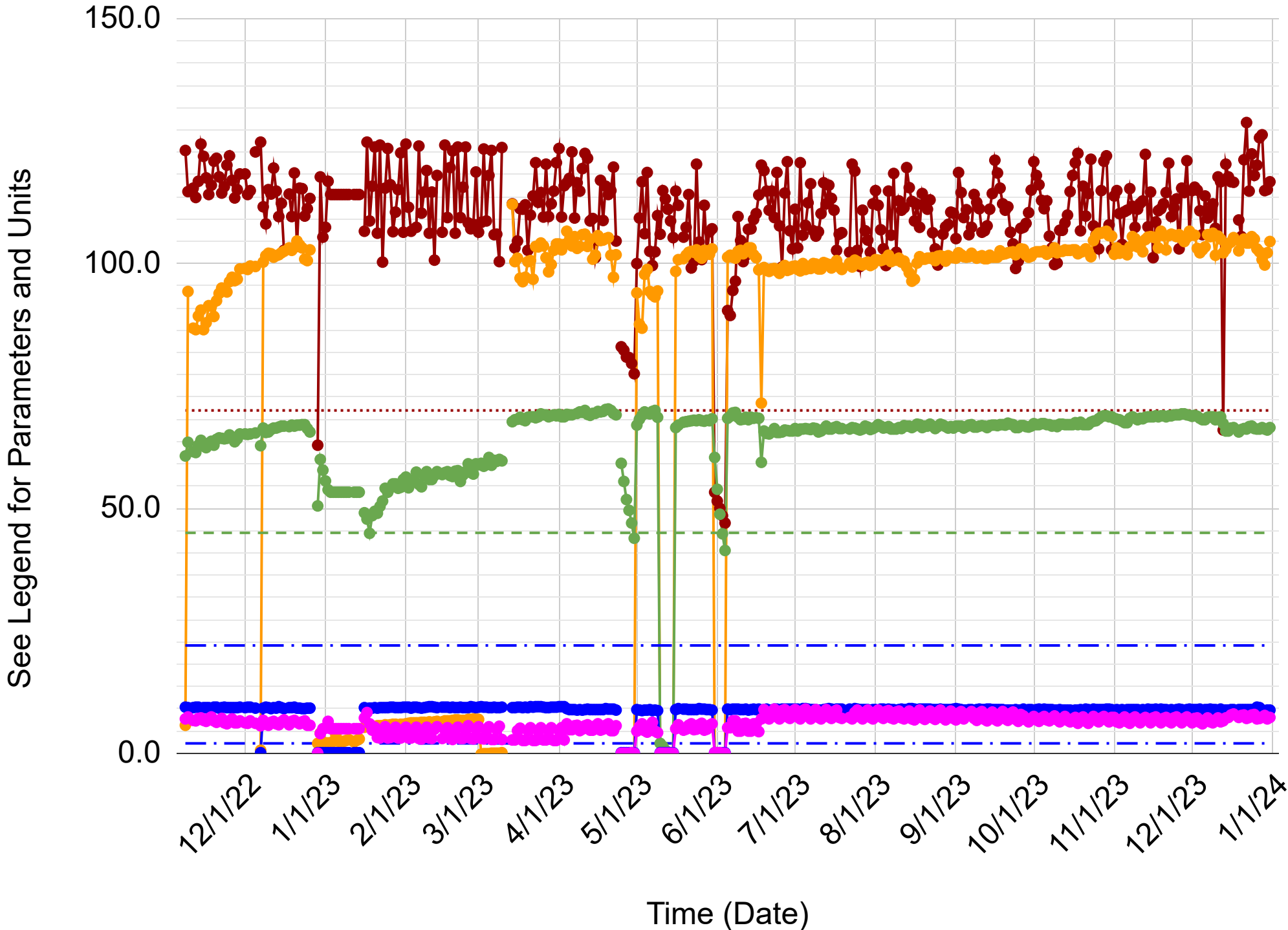
Appendix A.2

OITS Daily Operation Data Chart

Appendix A.2: OITS Daily Operation Data Chart

Former Cherry Street Cleaners - VCP ID: NW2009

- Air Pressure (PSI)
- Air Pressure Low Alarm (PSI)
- O3 Concentration (g/m3)
- O2 Pressure (PSI)
- - - O2 Pressure Low Alarm (PSI)
- O3 Generator (Amps)
- . - O3 Generator Low Alarm (Amps)
- . - O3 Generator High Alarm (Amps)
- Well Pressure (PSI)



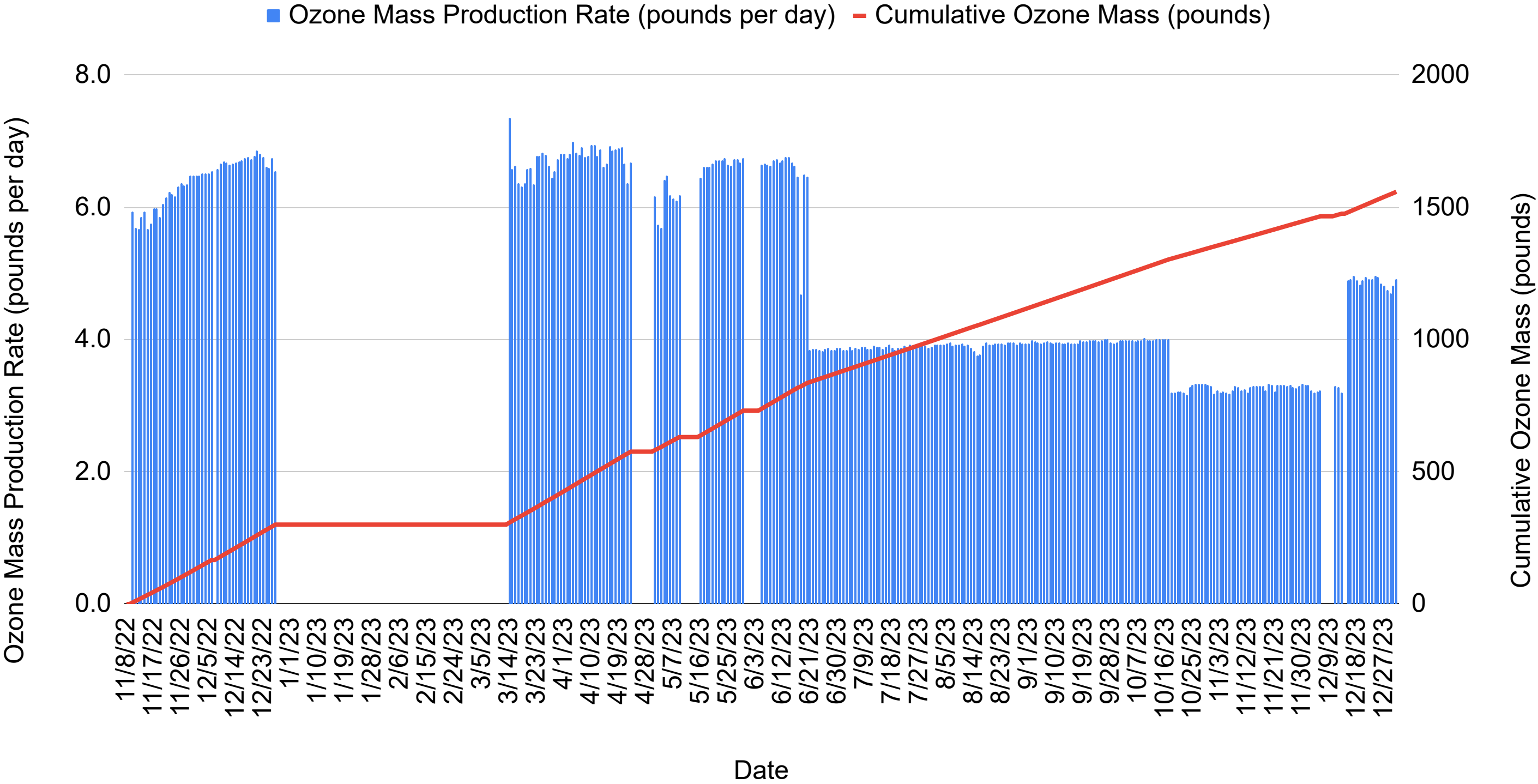


Appendix A.3

OITS Ozone Production Chart

Appendix A.3: OITS Ozone Production Chart

Former Cherry Street Cleaners - VCP ID: NW2009





VCP ID No. NW2009

Project No. WAKS2510C22.2

Date: 4/1/24

Appendix B

Low-Flow Test Reports



Appendix B.1

Q1 2023 Low-Flow Test Reports

Low-Flow Test Report:

Test Date / Time: 3/14/2023 2:51:55 PM
Project: WAKS2510C MW1
Operator Name: JD

Location Name: MW1 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 22 ft Total Depth: 42 ft Initial Depth to Water: 28.73 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 34.5 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/14/2023 2:51 PM	00:00	5.06 pH	17.08 °C	1,685.1 µS/cm	5.45 mg/L	52.14 NTU	79.4 mV	28.73	250.00 ml/min
3/14/2023 2:55 PM	03:23	4.94 pH	14.79 °C	1,900.0 µS/cm	1.50 mg/L	64.99 NTU	68.4 mV	28.73	250.00 ml/min
3/14/2023 2:58 PM	06:46	4.91 pH	14.25 °C	1,932.5 µS/cm	0.62 mg/L	62.57 NTU	63.0 mV	28.73	250.00 ml/min
3/14/2023 3:02 PM	10:09	4.91 pH	13.96 °C	1,964.8 µS/cm	0.43 mg/L	61.41 NTU	60.6 mV	28.73	250.00 ml/min
3/14/2023 3:05 PM	13:32	4.91 pH	13.64 °C	1,968.9 µS/cm	0.36 mg/L	59.34 NTU	58.4 mV	28.73	250.00 ml/min
3/14/2023 3:08 PM	16:55	4.92 pH	13.53 °C	1,968.5 µS/cm	0.32 mg/L	63.52 NTU	57.3 mV	28.73	250.00 ml/min
3/14/2023 3:12 PM	20:18	4.93 pH	13.77 °C	1,973.5 µS/cm	0.30 mg/L	65.53 NTU	56.5 mV	28.73	250.00 ml/min
3/14/2023 3:15 PM	23:41	4.94 pH	13.95 °C	1,973.1 µS/cm	0.30 mg/L	68.37 NTU	55.7 mV	28.73	250.00 ml/min
3/14/2023 3:18 PM	27:04	4.95 pH	13.57 °C	1,970.8 µS/cm	0.32 mg/L	52.57 NTU	54.8 mV	28.73	250.00 ml/min

Samples

Sample ID:	Description:
MW1:G031423	FD1:G031423

Low-Flow Test Report:

Test Date / Time: 3/13/2023 12:31:25 PM
Project: WAKS2510C MW2R (6)
Operator Name: JD

Location Name: MW2R Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Total Depth to Water: 26.68 ft	Pump Type: 1.66 Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 34 ft Pump Intake From TOC: 32.5 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/13/2023 12:31 PM	00:00	5.94 pH	12.67 °C	1,740.2 µS/cm	10.58 mg/L	75.51 NTU	263.5 mV	26.68	200.00 ml/min
3/13/2023 12:34 PM	03:17	5.92 pH	13.06 °C	1,745.1 µS/cm	10.50 mg/L	65.24 NTU	277.7 mV	26.68	200.00 ml/min
3/13/2023 12:37 PM	06:34	5.92 pH	13.16 °C	1,722.6 µS/cm	10.47 mg/L	46.55 NTU	288.5 mV	26.68	200.00 ml/min
3/13/2023 12:41 PM	09:51	5.92 pH	13.18 °C	1,694.4 µS/cm	10.35 mg/L	44.16 NTU	292.7 mV	26.68	200.00 ml/min
3/13/2023 12:44 PM	13:08	5.92 pH	13.15 °C	1,685.4 µS/cm	10.29 mg/L	42.11 NTU	299.2 mV	26.68	200.00 ml/min

Samples

Sample ID:	Description:
MW2R:G031323	

Low-Flow Test Report:

Test Date / Time: 3/13/2023 11:03:56 AM
Project: WAKS2510C MW3R (4)
Operator Name: JD

Location Name: MW3R Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 27.36 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 30 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/13/2023 11:03 AM	00:00	6.36 pH	8.80 °C	389.80 µS/cm	5.86 mg/L	14.92 NTU	240.4 mV	27.36	150.00 ml/min
3/13/2023 11:08 AM	04:07	6.21 pH	9.93 °C	359.27 µS/cm	5.11 mg/L	12.70 NTU	250.2 mV	27.36	150.00 ml/min
3/13/2023 11:12 AM	08:14	6.17 pH	10.76 °C	373.99 µS/cm	4.65 mg/L	12.74 NTU	245.7 mV	27.36	150.00 ml/min
3/13/2023 11:16 AM	12:21	6.13 pH	10.85 °C	408.00 µS/cm	4.58 mg/L	14.50 NTU	250.6 mV	27.36	150.00 ml/min
3/13/2023 11:20 AM	16:28	6.12 pH	10.75 °C	425.77 µS/cm	4.57 mg/L	9.27 NTU	258.8 mV	27.36	150.00 ml/min
3/13/2023 11:24 AM	20:35	6.12 pH	10.78 °C	436.04 µS/cm	4.59 mg/L	7.96 NTU	260.6 mV	27.36	150.00 ml/min
3/13/2023 11:28 AM	24:42	6.11 pH	10.83 °C	444.80 µS/cm	4.59 mg/L	9.86 NTU	260.4 mV	27.36	150.00 ml/min
3/13/2023 11:32 AM	28:49	6.12 pH	10.79 °C	447.28 µS/cm	4.66 mg/L	8.34 NTU	261.3 mV	27.36	150.00 ml/min
3/13/2023 11:36 AM	32:56	6.11 pH	10.72 °C	449.04 µS/cm	4.68 mg/L	10.20 NTU	258.1 mV	27.36	150.00 ml/min

Samples

Sample ID:	Description:
MW3R:G031323	

Low-Flow Test Report:

Test Date / Time: 3/11/2023 12:08:27 PM
Project: WAKS2510C MW4 (2)
Operator Name: JD

Location Name: MW4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25 ft Total Depth: 35 ft Initial Depth to Water: 21.70 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 32 ft Pump Intake From TOC: 28.5 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/11/2023 12:08 PM	00:00	6.23 pH	12.60 °C	175.80 µS/cm	10.15 mg/L	220.99 NTU	256.0 mV	21.70	200.00 ml/min
3/11/2023 12:11 PM	03:11	6.18 pH	12.98 °C	168.84 µS/cm	8.19 mg/L	77.46 NTU	283.8 mV	21.70	200.00 ml/min
3/11/2023 12:14 PM	06:22	6.17 pH	13.03 °C	168.45 µS/cm	8.15 mg/L	45.36 NTU	271.3 mV	21.70	200.00 ml/min
3/11/2023 12:18 PM	09:33	6.19 pH	13.08 °C	172.06 µS/cm	8.12 mg/L	39.82 NTU	289.0 mV	21.70	200.00 ml/min
3/11/2023 12:22 PM	13:46	6.17 pH	13.09 °C	167.74 µS/cm	8.08 mg/L	36.52 NTU	277.4 mV	21.70	200.00 ml/min

Samples

Sample ID:	Description:
MW4:G031123	

Low-Flow Test Report:

Test Date / Time: 3/12/2023 10:32:42 AM
Project: WAKS2510C MW5 (3)
Operator Name: JD

Location Name: MW5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 Total Depth: 41.5 Initial Depth to Water: 27.45 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 37 ft Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/12/2023 10:32 AM	00:00	6.74 pH	10.41 °C	382.33 µS/cm	9.67 mg/L	5,076.2 NTU	235.5 mV	27.45 ft	200.00 ml/min
3/12/2023 10:36 AM	03:26	6.69 pH	11.35 °C	355.30 µS/cm	7.80 mg/L	4,648.9 NTU	241.5 mV	27.45 ft	200.00 ml/min
3/12/2023 10:39 AM	06:52	6.68 pH	11.76 °C	350.10 µS/cm	7.36 mg/L	1,889.1 NTU	231.2 mV	27.45 ft	200.00 ml/min
3/12/2023 10:43 AM	10:18	6.69 pH	11.91 °C	348.91 µS/cm	7.20 mg/L	745.78 NTU	226.7 mV	27.45 ft	200.00 ml/min
3/12/2023 10:46 AM	13:44	6.70 pH	11.99 °C	347.49 µS/cm	7.13 mg/L	471.79 NTU	228.8 mV	27.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW5:G031223	

Low-Flow Test Report:

Test Date / Time: 3/12/2023 11:41:55 AM
Project: WAKS2510C MW6
Operator Name: JD

Location Name: MW6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 29.78 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 0.2 gal Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/12/2023 11:41 AM	00:00	6.54 pH	12.77 °C	417.36 µS/cm	7.29 mg/L	881.45 NTU	250.7 mV	29.78 ft	125.00 ml/min
3/12/2023 11:48 AM	06:46	6.59 pH	13.21 °C	414.17 µS/cm	6.20 mg/L	839.62 NTU	308.3 mV	29.78 ft	125.00 ml/min
3/12/2023 11:55 AM	13:32	6.60 pH	13.20 °C	413.92 µS/cm	6.16 mg/L	462.65 NTU	317.9 mV	29.78 ft	125.00 ml/min
3/12/2023 12:02 PM	20:18	6.61 pH	13.16 °C	411.62 µS/cm	6.15 mg/L	270.67 NTU	319.6 mV	29.78 ft	125.00 ml/min

Samples

Sample ID:	Description:
MW6:G031223	

Low-Flow Test Report:

Test Date / Time: 3/13/2023 3:56:15 PM
Project: WAKS2510C MW7 (7)
Operator Name: JD

Location Name: MW7 Well Diameter: 4 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 28.00 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 33.5 ft Estimated Total Volume Pumped: 1.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 180 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/13/2023 3:56 PM	00:00	5.83 pH	13.75 °C	468.21 µS/cm	4.58 mg/L	17.23 NTU	56.4 mV	28.00	180.00 ml/min
3/13/2023 4:00 PM	03:45	5.80 pH	14.10 °C	433.26 µS/cm	1.01 mg/L	11.80 NTU	47.2 mV	28.00	180.00 ml/min
3/13/2023 4:03 PM	07:30	5.86 pH	14.15 °C	430.02 µS/cm	0.64 mg/L	12.57 NTU	40.9 mV	28.00	180.00 ml/min
3/13/2023 4:07 PM	11:15	5.89 pH	14.04 °C	428.04 µS/cm	0.49 mg/L	11.49 NTU	36.8 mV	28.00	180.00 ml/min
3/13/2023 4:11 PM	15:00	5.91 pH	14.03 °C	427.10 µS/cm	0.43 mg/L	8.29 NTU	35.0 mV	28.00	180.00 ml/min
3/13/2023 4:15 PM	18:45	5.93 pH	13.94 °C	427.76 µS/cm	0.36 mg/L	9.98 NTU	33.2 mV	28.00	180.00 ml/min
3/13/2023 4:18 PM	22:30	5.93 pH	13.77 °C	429.44 µS/cm	0.34 mg/L	10.08 NTU	33.1 mV	28.00	180.00 ml/min
3/13/2023 4:22 PM	26:15	5.92 pH	13.78 °C	430.76 µS/cm	0.30 mg/L	10.36 NTU	32.7 mV	28.00	180.00 ml/min
3/13/2023 4:26 PM	30:00	5.93 pH	13.74 °C	430.63 µS/cm	0.28 mg/L	7.74 NTU	32.3 mV	28.00	180.00 ml/min
3/13/2023 4:30 PM	33:45	5.93 pH	13.76 °C	431.47 µS/cm	0.26 mg/L	11.99 NTU	32.4 mV	28.00	180.00 ml/min
3/13/2023 4:33 PM	37:30	5.94 pH	13.74 °C	433.25 µS/cm	0.24 mg/L	7.47 NTU	31.5 mV	28.00	180.00 ml/min
3/13/2023 4:37 PM	41:15	5.93 pH	13.70 °C	434.79 µS/cm	0.23 mg/L	11.96 NTU	31.3 mV	28.00	180.00 ml/min
3/13/2023 4:41 PM	45:00	5.93 pH	13.72 °C	435.66 µS/cm	0.22 mg/L	9.76 NTU	31.8 mV	28.00	180.00 ml/min

Samples

Sample ID:	Description:
MW7:G031323	

Low-Flow Test Report:

Test Date / Time: 3/10/2023 3:50:35 PM
Project: WAKS2510C MW9
Operator Name: JD

Location Name: MW9 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 27.00 ft	Pump Type: 1.66 Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 32 ft Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/10/2023 3:50 PM	00:00	6.40 pH	12.75 °C	511.71 µS/cm	5.39 mg/L	40.16 NTU	225.9 mV	27.00 ft	250.00 ml/min
3/10/2023 3:53 PM	02:33	6.40 pH	12.57 °C	512.65 µS/cm	4.95 mg/L	30.83 NTU	227.2 mV	27.00 ft	250.00 ml/min
3/10/2023 3:55 PM	05:06	6.41 pH	12.48 °C	523.82 µS/cm	4.92 mg/L	30.13 NTU	227.6 mV	27.00 ft	250.00 ml/min

Samples

Sample ID:	Description:
MW9:G031023	

Low-Flow Test Report:

Test Date / Time: 3/11/2023 5:34:57 PM
Project: WAKS2510C MW13 (2)
Operator Name: JD

Location Name:MW13 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 20 ft Total Depth: 35 ft Initial Depth to Water: 24.28 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 30 ft Pump Intake From TOC: 29.5 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/11/2023 5:34 PM	00:00	6.54 pH	10.67 °C	289.37 µS/cm	9.66 mg/L	31.01 NTU	251.1 mV	24.28	200.00 ml/min
3/11/2023 5:38 PM	03:05	6.23 pH	10.22 °C	164.29 µS/cm	10.05 mg/L	52.81 NTU	314.1 mV	24.30	200.00 ml/min
3/11/2023 5:41 PM	06:10	6.13 pH	10.45 °C	140.20 µS/cm	9.84 mg/L	78.61 NTU	341.1 mV	24.31	200.00 ml/min
3/11/2023 5:44 PM	09:15	6.10 pH	10.50 °C	127.74 µS/cm	9.34 mg/L	94.97 NTU	351.3 mV	24.32	200.00 ml/min
3/11/2023 5:47 PM	12:20	6.09 pH	10.54 °C	115.72 µS/cm	9.07 mg/L	102.89 NTU	357.7 mV	24.34	200.00 ml/min
3/11/2023 5:50 PM	15:25	6.08 pH	10.57 °C	123.81 µS/cm	8.99 mg/L	110.73 NTU	362.2 mV	24.36	200.00 ml/min
3/11/2023 5:53 PM	18:30	6.09 pH	10.52 °C	117.63 µS/cm	8.91 mg/L	165.08 NTU	362.0 mV	24.38	200.00 ml/min
3/11/2023 5:56 PM	21:35	6.09 pH	10.50 °C	113.56 µS/cm	8.87 mg/L	114.20 NTU	361.1 mV	24.39	200.00 ml/min
3/11/2023 5:59 PM	24:40	6.09 pH	10.54 °C	111.88 µS/cm	8.85 mg/L	96.93 NTU	360.0 mV	24.40	200.00 ml/min
3/11/2023 6:02 PM	27:45	6.10 pH	10.46 °C	113.17 µS/cm	8.83 mg/L	84.14 NTU	358.2 mV	24.40	200.00 ml/min

Samples

Sample ID:	Description:
MW13:G031123	

Low-Flow Test Report:

Test Date / Time: 3/14/2023 11:02:15 AM
Project: WAKS2510C MW15 (8)
Operator Name: JD

Location Name: MW15 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23 ft Total Depth: 38 ft Initial Depth to Water: 30.15 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 34 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 2 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/14/2023 11:02 AM	00:00	6.67 pH	11.70 °C	449.45 µS/cm	7.67 mg/L	62.63 NTU	205.3 mV	30.15 ft	200.00 ml/min
3/14/2023 11:05 AM	03:17	6.55 pH	11.71 °C	463.15 µS/cm	3.74 mg/L	75.01 NTU	231.1 mV	30.15 ft	200.00 ml/min
3/14/2023 11:08 AM	06:34	6.54 pH	11.75 °C	465.75 µS/cm	2.12 mg/L	88.52 NTU	227.3 mV	30.15 ft	200.00 ml/min
3/14/2023 11:12 AM	09:51	6.54 pH	11.75 °C	466.69 µS/cm	1.60 mg/L	91.76 NTU	221.3 mV	30.15 ft	200.00 ml/min
3/14/2023 11:15 AM	13:08	6.54 pH	11.77 °C	466.14 µS/cm	1.35 mg/L	90.52 NTU	217.2 mV	30.15 ft	200.00 ml/min
3/14/2023 11:18 AM	16:25	6.52 pH	11.95 °C	465.69 µS/cm	1.21 mg/L	100.30 NTU	214.2 mV	30.15 ft	200.00 ml/min
3/14/2023 11:21 AM	19:42	6.54 pH	12.25 °C	464.99 µS/cm	1.10 mg/L	81.06 NTU	210.3 mV	30.15 ft	200.00 ml/min
3/14/2023 11:25 AM	22:59	6.54 pH	12.44 °C	465.38 µS/cm	1.03 mg/L	81.06 NTU	206.3 mV	30.15 ft	200.00 ml/min
3/14/2023 11:28 AM	26:16	6.54 pH	12.36 °C	463.99 µS/cm	0.99 mg/L	68.40 NTU	206.0 mV	30.15 ft	200.00 ml/min
3/14/2023 11:31 AM	29:33	6.52 pH	12.74 °C	464.12 µS/cm	0.96 mg/L	59.90 NTU	205.3 mV	30.15 ft	200.00 ml/min
3/14/2023 11:35 AM	32:50	6.53 pH	12.86 °C	463.58 µS/cm	0.91 mg/L	49.37 NTU	202.8 mV	30.15 ft	200.00 ml/min
3/14/2023 11:38 AM	36:07	6.53 pH	12.97 °C	462.82 µS/cm	0.87 mg/L	40.06 NTU	201.0 mV	30.15 ft	200.00 ml/min
3/14/2023 11:41 AM	39:24	6.53 pH	12.88 °C	461.81 µS/cm	0.86 mg/L	37.88 NTU	199.6 mV	30.15 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW15:G031423	

Low-Flow Test Report:

Test Date / Time: 3/11/2023 3:24:09 PM
Project: WAKS2510C MW15D
Operator Name: JD

Location Name: MW15D Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 55 ft Total Depth: 60 ft Initial Depth to Water: 30.52 ft	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 58 ft Pump Intake From TOC: 59 ft Estimated Total Volume Pumped: 9735 ml Flow Cell Volume: 130 ml Final Flow Rate: 450 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/11/2023 3:24 PM	00:00	6.57 pH	13.72 °C	378.21 µS/cm	5.68 mg/L	28.37 NTU	279.4 mV	30.52	450.00 ml/min
3/11/2023 3:26 PM	01:58	6.58 pH	13.57 °C	421.34 µS/cm	6.87 mg/L	29.75 NTU	301.5 mV	30.52	450.00 ml/min
3/11/2023 3:28 PM	03:56	6.61 pH	13.36 °C	447.52 µS/cm	8.63 mg/L	23.42 NTU	313.2 mV	30.52	450.00 ml/min
3/11/2023 3:30 PM	05:54	6.59 pH	13.13 °C	463.84 µS/cm	7.41 mg/L	35.24 NTU	322.6 mV	30.52	450.00 ml/min
3/11/2023 3:32 PM	07:52	6.59 pH	13.23 °C	466.96 µS/cm	6.39 mg/L	24.72 NTU	321.7 mV	30.52	450.00 ml/min
3/11/2023 3:33 PM	09:50	6.60 pH	13.18 °C	474.88 µS/cm	6.02 mg/L	24.85 NTU	320.5 mV	30.52	450.00 ml/min
3/11/2023 3:35 PM	11:48	6.61 pH	13.26 °C	474.19 µS/cm	5.85 mg/L	24.22 NTU	318.8 mV	30.52	450.00 ml/min
3/11/2023 3:37 PM	13:46	6.63 pH	13.36 °C	478.24 µS/cm	5.74 mg/L	27.04 NTU	315.8 mV	30.52	450.00 ml/min
3/11/2023 3:39 PM	15:44	6.65 pH	13.30 °C	482.45 µS/cm	5.68 mg/L	21.15 NTU	316.0 mV	30.52	450.00 ml/min
3/11/2023 3:41 PM	17:42	6.66 pH	13.23 °C	484.69 µS/cm	5.62 mg/L	17.46 NTU	315.3 mV	30.52	450.00 ml/min
3/11/2023 3:43 PM	19:40	6.67 pH	13.15 °C	485.67 µS/cm	5.60 mg/L	18.52 NTU	316.9 mV	30.52	450.00 ml/min
3/11/2023 3:45 PM	21:38	6.68 pH	13.09 °C	486.31 µS/cm	5.59 mg/L	17.68 NTU	318.1 mV	30.52	450.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2023 2:13:36 PM
Project: WAKS2510C MW101 (2)
Operator Name: JD

Location Name: MW101 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20 ft Total Depth: 30 ft Initial Depth to Water: 27.42	Pump Type: 1.66" Bladder Pump Tubing Type: Teflon Tubing Inner Diameter: 0.25 in Tubing Length: 29 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 1.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588628
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/12/2023 2:13 PM	00:00	6.27 pH	12.06 °C	399.41 µS/cm	5.19 mg/L	101.26 NTU	279.6 mV	27.42	150.00 ml/min
3/12/2023 2:17 PM	04:03	6.15 pH	11.83 °C	406.25 µS/cm	2.54 mg/L	273.25 NTU	298.5 mV	27.42	150.00 ml/min
3/12/2023 2:21 PM	08:06	6.15 pH	12.11 °C	404.77 µS/cm	1.76 mg/L	110.14 NTU	287.2 mV	27.42	150.00 ml/min
3/12/2023 2:25 PM	12:09	6.18 pH	12.62 °C	401.05 µS/cm	4.44 mg/L	47.28 NTU	304.5 mV	27.42	150.00 ml/min
3/12/2023 2:29 PM	16:12	6.21 pH	13.06 °C	394.62 µS/cm	2.24 mg/L	16.60 NTU	294.9 mV	27.42	150.00 ml/min
3/12/2023 2:33 PM	20:15	6.27 pH	13.11 °C	391.88 µS/cm	1.87 mg/L	9.22 NTU	288.5 mV	27.42	150.00 ml/min
3/12/2023 2:37 PM	24:18	6.30 pH	13.05 °C	391.15 µS/cm	1.86 mg/L	8.91 NTU	291.6 mV	27.42	150.00 ml/min
3/12/2023 2:41 PM	28:21	6.33 pH	13.22 °C	390.06 µS/cm	1.71 mg/L	7.96 NTU	289.4 mV	27.42	150.00 ml/min

Samples

Sample ID:	Description:
MW101:G031223	

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/10/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/10/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.845
Reference Temperature	20.00 °C

Pre Measurement

Actual Conductivity	7,449.2 $\mu\text{S/cm}$
Specific Conductivity	7,690.3 $\mu\text{S/cm}$

Post Measurement

Actual Conductivity	6,251.8 $\mu\text{S/cm}$
Specific Conductivity	7,160.0 $\mu\text{S/cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	Factory Defaults

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/10/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/10/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.94
Reference Temperature	20.00 °C

Pre Measurement

Actual Conductivity	6,089.6 $\mu\text{S}/\text{cm}$
Specific Conductivity	6,437.5 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,089.2 $\mu\text{S}/\text{cm}$
Specific Conductivity	7,160.0 $\mu\text{S}/\text{cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/10/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	8.5 mV
Temperature	17.66 °C

Pre Measurement

pH	6.85 pH
pH mV	8.6 mV

Post Measurement

pH	7.02 pH
pH mV	8.3 mV

Slope and Offset 1

Slope	-57.7 mV/pH
Offset	9.7 mV

ORP

ORP Solution	Zobell's
Offset	6.4 mV
Temperature	17.65 °C
Pre Measurement	232.3 mV
Post Measurement	238.7 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/11/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/11/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.124
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	5,311.0 $\mu\text{S/cm}$
Specific Conductivity	7,606.2 $\mu\text{S/cm}$

Post Measurement

Actual Conductivity	5,585.9 $\mu\text{S/cm}$
Specific Conductivity	8,000.0 $\mu\text{S/cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/11/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.06 pH
pH mV	-4.3 mV
Temperature	9.25 °C

Pre Measurement

pH	7.24 pH
pH mV	-4.2 mV

Post Measurement

pH	7.06 pH
pH mV	-4.0 mV

Slope and Offset 1

Slope	-56.04 mV/pH
Offset	-0.9 mV

ORP

ORP Solution	Zobell's
Offset	11.6 mV
Temperature	8.70 °C
Pre Measurement	245.2 mV
Post Measurement	250.4 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/12/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/11/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.124
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	5,311.0 $\mu\text{S/cm}$
Specific Conductivity	7,606.2 $\mu\text{S/cm}$

Post Measurement

Actual Conductivity	5,585.9 $\mu\text{S/cm}$
Specific Conductivity	8,000.0 $\mu\text{S/cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/12/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.06 pH
pH mV	-0.9 mV
Temperature	9.42 °C

Pre Measurement

pH	7.00 pH
pH mV	-0.9 mV

Post Measurement

pH	7.06 pH
pH mV	-0.9 mV

Slope and Offset 1

Slope	-56.07 mV/pH
Offset	2.5 mV

ORP

ORP Solution	Zobell's
Offset	11.6 mV
Temperature	8.70 °C
Pre Measurement	245.2 mV
Post Measurement	250.4 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/12/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/12/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.011
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,312.0 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,899.3 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	5,674.2 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/12/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.06 pH
pH mV	-0.9 mV
Temperature	9.42 °C

Pre Measurement

pH	7.00 pH
pH mV	-0.9 mV

Post Measurement

pH	7.06 pH
pH mV	-0.9 mV

Slope and Offset 1

Slope	-56.07 mV/pH
Offset	2.5 mV

ORP

ORP Solution	Zobell's
Offset	11.6 mV
Temperature	8.70 °C
Pre Measurement	245.2 mV
Post Measurement	250.4 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/12/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/12/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.011
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,312.0 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,899.3 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	5,674.2 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/12/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.06 pH
pH mV	-0.9 mV
Temperature	9.42 °C

Pre Measurement

pH	7.00 pH
pH mV	-0.9 mV

Post Measurement

pH	7.06 pH
pH mV	-0.9 mV

Slope and Offset 1

Slope	-56.07 mV/pH
Offset	2.5 mV

ORP

ORP Solution	Zobell's
Offset	7.7 mV
Temperature	9.62 °C
Pre Measurement	253.2 mV
Post Measurement	249.2 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/13/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/12/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.011
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,312.0 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,899.3 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	5,674.2 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/13/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.04 pH
pH mV	-6.5 mV
Temperature	12.97 °C

Pre Measurement

pH	7.16 pH
pH mV	-6.5 mV

Post Measurement

pH	7.04 pH
pH mV	-6.2 mV

Slope and Offset 1

Slope	-56.77 mV/pH
Offset	-4.2 mV

ORP

ORP Solution	Zobell's
Offset	7.7 mV
Temperature	9.62 °C
Pre Measurement	253.2 mV
Post Measurement	249.2 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/13/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/13/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.014
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,221.4 $\mu\text{S}/\text{cm}$
Specific Conductivity	7,977.4 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,239.0 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/13/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.04 pH
pH mV	-6.5 mV
Temperature	12.97 °C

Pre Measurement

pH	7.16 pH
pH mV	-6.5 mV

Post Measurement

pH	7.04 pH
pH mV	-6.2 mV

Slope and Offset 1

Slope	-56.77 mV/pH
Offset	-4.2 mV

ORP

ORP Solution	Zobell's
Offset	7.7 mV
Temperature	9.62 °C
Pre Measurement	253.2 mV
Post Measurement	249.2 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588628
Created 3/14/2023

Sensor

Sensor Turbidity
Serial Number 875449
Last Calibrated 3/7/2023

Calibration Details

Slope 0.9933621
Offset 0.84 NTU

Calibration Point 1

Pre Measurement 0.00 NTU
Post Measurement 0.00 NTU

Calibration Point 2

Pre Measurement 99.82 NTU
Post Measurement 100.00 NTU

Sensor

Sensor RDO
Serial Number 852213
Last Calibrated 3/7/2023

Calibration Details

Slope 1.027641
Offset 0.00 mg/L

Calibration point 100%

Concentration 7.21 mg/L
Pre Measurement 97.34 %Sat
Post Measurement 100.00 %Sat
Temperature 24.16 °C
Barometric Pressure 898.70 mbar

Calibration point 0%

Concentration 0.00 mg/L
Pre Measurement 0.02 %Sat
Post Measurement 0.00 %Sat
Temperature 23.94 °C

Sensor

Sensor Conductivity
Serial Number 1009908
Last Calibrated 3/13/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.014
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,221.4 $\mu\text{S}/\text{cm}$
Specific Conductivity	7,977.4 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,239.0 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor

Sensor	pH/ORP
Serial Number	967240
Last Calibrated	3/14/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.06 pH
pH mV	-5.4 mV
Temperature	8.84 °C

Pre Measurement

pH	7.02 pH
pH mV	-5.3 mV

Post Measurement

pH	7.06 pH
pH mV	-5.1 mV

Slope and Offset 1

Slope	-55.95 mV/pH
Offset	-2.0 mV

ORP

ORP Solution	Zobell's
Offset	8.9 mV
Temperature	12.77 °C
Pre Measurement	243.9 mV
Post Measurement	245.1 mV

Sensor

Sensor	Barometric Pressure
Serial Number	588628
Last Calibrated	Factory Defaults



Appendix B.2

Q2 2023 Low-Flow Test Reports

Low-Flow Test Report:

Test Date / Time: 6/19/2023 5:19:27 PM
Project: WAKS2510C_MW1
Operator Name: Ag

Location Name: MW-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 22 ft Total Depth: 42 ft Initial Depth to Water: 28.10 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 1.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.50 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/19/2023 5:19 PM	00:00	4.58 pH	15.88 °C	2,076.8 µS/cm	0.76 mg/L	34.40 NTU	-21.5 mV	28.10 ft	200.00 ml/min
6/19/2023 5:22 PM	03:20	4.59 pH	15.88 °C	2,082.5 µS/cm	0.84 mg/L	42.63 NTU	-22.3 mV	28.25 ft	200.00 ml/min
6/19/2023 5:26 PM	06:40	4.56 pH	15.84 °C	2,130.5 µS/cm	1.24 mg/L	33.93 NTU	-22.0 mV	28.40 ft	200.00 ml/min
6/19/2023 5:29 PM	10:00	4.52 pH	15.84 °C	2,208.9 µS/cm	1.57 mg/L	33.89 NTU	-21.7 mV	28.60 ft	200.00 ml/min
6/19/2023 5:32 PM	13:20	4.47 pH	15.88 °C	2,291.7 µS/cm	1.85 mg/L	24.87 NTU	-21.1 mV	28.70 ft	200.00 ml/min
6/19/2023 5:36 PM	16:40	4.43 pH	15.89 °C	2,377.6 µS/cm	2.24 mg/L	21.86 NTU	-20.3 mV	28.95 ft	200.00 ml/min
6/19/2023 5:39 PM	20:00	4.40 pH	15.94 °C	2,439.2 µS/cm	2.66 mg/L	25.68 NTU	-19.6 mV	29.15 ft	200.00 ml/min
6/19/2023 5:42 PM	23:20	4.38 pH	15.82 °C	2,479.3 µS/cm	3.14 mg/L	22.63 NTU	-18.8 mV	29.26 ft	100.00 ml/min
6/19/2023 5:46 PM	26:40	4.37 pH	16.48 °C	2,500.2 µS/cm	3.38 mg/L	15.86 NTU	-17.7 mV	29.37 ft	100.00 ml/min
6/19/2023 5:49 PM	30:00	4.38 pH	16.71 °C	2,494.8 µS/cm	3.55 mg/L	19.73 NTU	-17.2 mV	29.48 ft	100.00 ml/min
6/19/2023 5:52 PM	33:20	4.39 pH	16.61 °C	2,486.6 µS/cm	3.77 mg/L	16.37 NTU	-17.1 mV	29.52 ft	100.00 ml/min
6/19/2023 5:56 PM	36:40	4.39 pH	16.64 °C	2,475.0 µS/cm	3.89 mg/L	18.17 NTU	-16.7 mV	29.60 ft	100.00 ml/min

Samples

Sample ID:	Description:
Mw1:g061923	Vocs
Fd1:g061923	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 7:40:45 PM
Project: WAKS2510C_MW2R
Operator Name: Ag

Location Name: MW-2R Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 26.15 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 33 ft Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 7:40 PM	00:00	5.83 pH	14.99 °C	1,773.9 µS/cm	14.31 mg/L	21.89 NTU	157.8 mV	26.15 ft	150.00 ml/min
6/18/2023 7:45 PM	04:19	5.84 pH	14.44 °C	1,740.3 µS/cm	14.43 mg/L	35.63 NTU	178.3 mV	26.15 ft	150.00 ml/min
6/18/2023 7:49 PM	08:38	5.83 pH	14.30 °C	1,742.3 µS/cm	14.56 mg/L	29.22 NTU	178.0 mV	26.15 ft	150.00 ml/min
6/18/2023 7:53 PM	12:57	5.84 pH	14.25 °C	1,752.9 µS/cm	14.56 mg/L	22.81 NTU	177.1 mV	26.15 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw2r:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 6:37:10 PM
Project: WAKS2510C_MW3R
Operator Name: Ag

Location Name: MW-3R Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 26.69 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 30 ft Pump Intake From TOC: 28.5 ft Estimated Total Volume Pumped: 1.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 6:37 PM	00:00	6.18 pH	15.32 °C	465.82 µS/cm	7.10 mg/L	3.20 NTU	130.5 mV	26.69 ft	150.00 ml/min
6/18/2023 6:41 PM	04:07	6.05 pH	15.05 °C	504.84 µS/cm	5.50 mg/L	0.51 NTU	146.1 mV	26.69 ft	150.00 ml/min
6/18/2023 6:45 PM	08:14	5.93 pH	15.06 °C	618.50 µS/cm	4.54 mg/L	1.92 NTU	147.5 mV	26.69 ft	150.00 ml/min
6/18/2023 6:49 PM	12:21	5.91 pH	14.84 °C	661.82 µS/cm	4.61 mg/L	2.49 NTU	146.0 mV	26.69 ft	150.00 ml/min
6/18/2023 6:53 PM	16:28	5.92 pH	14.92 °C	669.11 µS/cm	4.65 mg/L	2.08 NTU	146.9 mV	26.69 ft	150.00 ml/min
6/18/2023 6:57 PM	20:35	5.93 pH	14.81 °C	674.48 µS/cm	4.66 mg/L	1.74 NTU	147.8 mV	26.69 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw3r:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/17/2023 6:22:34 PM
Project: WAKS2510C_MW4
Operator Name: Ag

Location Name: MW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25 ft Total Depth: 35 ft Initial Depth to Water: 21.15 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 31 ft Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/17/2023 6:22 PM	00:00	6.08 pH	14.55 °C	150.30 µS/cm	8.11 mg/L	179.89 NTU	156.6 mV	21.15 ft	250.00 ml/min
6/17/2023 6:25 PM	02:31	6.11 pH	14.25 °C	150.79 µS/cm	8.08 mg/L	127.68 NTU	214.8 mV	21.15 ft	250.00 ml/min
6/17/2023 6:27 PM	05:02	6.13 pH	14.24 °C	152.34 µS/cm	8.01 mg/L	136.79 NTU	224.9 mV	21.15 ft	250.00 ml/min
6/17/2023 6:30 PM	07:33	6.15 pH	14.13 °C	148.05 µS/cm	8.03 mg/L	110.21 NTU	246.2 mV	21.15 ft	250.00 ml/min

Samples

Sample ID:	Description:
Mw4:g061723	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 12:36:13 PM
Project: WAKS2510C_MW5
Operator Name: Ag

Location Name: MW-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 27.05 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 38 ft Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 1.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 12:36 PM	00:00	6.40 pH	15.01 °C	348.18 µS/cm	7.01 mg/L	4.70 NTU	124.7 mV	27.05 ft	150.00 ml/min
6/18/2023 12:40 PM	04:38	6.44 pH	15.12 °C	347.89 µS/cm	6.92 mg/L	3.07 NTU	137.0 mV	27.05 ft	150.00 ml/min
6/18/2023 12:45 PM	09:16	6.48 pH	14.97 °C	346.89 µS/cm	6.86 mg/L	3.46 NTU	138.3 mV	27.05 ft	150.00 ml/min
6/18/2023 12:50 PM	13:54	6.45 pH	14.92 °C	346.00 µS/cm	6.82 mg/L	8.44 NTU	140.1 mV	27.05 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw5:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 2:26:49 PM
Project: WAKS2510C_MW6
Operator Name: Ag

Location Name: MW-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 28.65 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 37 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 2:26 PM	00:00	6.31 pH	14.27 °C	405.99 µS/cm	6.34 mg/L	3.52 NTU	127.1 mV	28.65 ft	250.00 ml/min
6/18/2023 2:29 PM	02:44	6.32 pH	14.09 °C	405.69 µS/cm	6.26 mg/L	2.13 NTU	139.3 mV	28.65 ft	250.00 ml/min
6/18/2023 2:32 PM	05:28	6.36 pH	14.15 °C	405.92 µS/cm	6.20 mg/L	1.19 NTU	141.0 mV	28.65 ft	250.00 ml/min
6/18/2023 2:35 PM	08:12	6.41 pH	14.15 °C	403.06 µS/cm	6.16 mg/L	1.40 NTU	134.7 mV	28.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
Mw6:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/19/2023 1:14:44 PM
Project: WAKS2510C_MW7
Operator Name: Ag

Location Name: MW-7 Well Diameter: 4 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 27.25 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.58 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/19/2023 1:14 PM	00:00	5.66 pH	14.83 °C	584.75 µS/cm	1.07 mg/L	15.91 NTU	-129.0 mV	27.25 ft	150.00 ml/min
6/19/2023 1:19 PM	04:27	5.73 pH	14.90 °C	586.97 µS/cm	0.75 mg/L	17.00 NTU	-127.0 mV	27.50 ft	150.00 ml/min
6/19/2023 1:23 PM	08:54	5.76 pH	14.89 °C	587.45 µS/cm	0.58 mg/L	15.01 NTU	-130.2 mV	27.75 ft	150.00 ml/min
6/19/2023 1:28 PM	13:21	5.78 pH	14.91 °C	586.69 µS/cm	0.51 mg/L	15.70 NTU	-133.7 mV	27.90 ft	150.00 ml/min
6/19/2023 1:32 PM	17:48	5.80 pH	14.88 °C	584.77 µS/cm	0.46 mg/L	15.06 NTU	-134.9 mV	28.06 ft	150.00 ml/min
6/19/2023 1:36 PM	22:15	5.80 pH	14.96 °C	586.64 µS/cm	0.42 mg/L	15.03 NTU	-134.6 mV	28.20 ft	150.00 ml/min
6/19/2023 1:41 PM	26:42	5.81 pH	14.87 °C	585.57 µS/cm	0.39 mg/L	13.15 NTU	-134.6 mV	28.40 ft	150.00 ml/min
6/19/2023 1:45 PM	31:09	5.82 pH	14.87 °C	590.93 µS/cm	0.35 mg/L	15.18 NTU	-134.1 mV	28.50 ft	150.00 ml/min
6/19/2023 1:50 PM	35:36	5.83 pH	15.07 °C	586.60 µS/cm	0.34 mg/L	17.89 NTU	-134.7 mV	28.68 ft	150.00 ml/min
6/19/2023 1:54 PM	40:03	5.81 pH	14.94 °C	586.48 µS/cm	0.32 mg/L	16.43 NTU	-133.0 mV	28.83 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Mw7:g061923	Vocs
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Low-Flow Test Report:

Test Date / Time: 6/17/2023 4:59:17 PM
Project: WAKS2510C_MW-9
Operator Name: Ag

Location Name: MW-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 26.62 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/17/2023 4:59 PM	00:00	6.89 pH	15.51 °C	483.89 µS/cm	9.50 mg/L	161.22 NTU	84.6 mV	26.62 ft	150.00 ml/min
6/17/2023 5:03 PM	04:27	6.95 pH	15.47 °C	478.35 µS/cm	9.31 mg/L	126.29 NTU	96.6 mV	26.62 ft	150.00 ml/min
6/17/2023 5:08 PM	08:54	6.94 pH	15.23 °C	477.54 µS/cm	9.32 mg/L	108.90 NTU	108.7 mV	26.62 ft	150.00 ml/min
6/17/2023 5:12 PM	13:21	6.93 pH	15.07 °C	465.53 µS/cm	9.24 mg/L	100.56 NTU	120.6 mV	26.62 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw9:g061723	Vocs

Low-Flow Test Report:

Test Date / Time: 6/19/2023 2:49:14 PM
Project: WAKS2510C_MW11
Operator Name: Ag

Location Name: MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 28.78 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34.5 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/19/2023 2:49 PM	00:00	6.32 pH	15.32 °C	379.86 µS/cm	4.75 mg/L	10.74 NTU	-85.2 mV	28.78 ft	150.00 ml/min
6/19/2023 2:53 PM	04:27	6.41 pH	15.04 °C	371.24 µS/cm	4.90 mg/L	7.02 NTU	-19.7 mV	28.78 ft	150.00 ml/min
6/19/2023 2:58 PM	08:54	6.44 pH	14.98 °C	371.99 µS/cm	4.83 mg/L	4.88 NTU	6.7 mV	28.78 ft	150.00 ml/min
6/19/2023 3:02 PM	13:21	6.45 pH	15.00 °C	376.50 µS/cm	4.73 mg/L	3.68 NTU	19.0 mV	28.78 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw11:g061923	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 1:31:06 PM
Project: WAKS2510C_MW13
Operator Name: Ag

Location Name: MW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 20 ft Total Depth: 35 ft Initial Depth to Water: 23.60 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 31 ft Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
6/18/2023 1:31 PM	00:00	5.87 pH	13.70 °C	114.97 µS/cm	11.38 mg/L	55.69 NTU	191.0 mV	23.60 ft	250.00 ml/min
6/18/2023 1:33 PM	02:31	5.81 pH	13.57 °C	114.95 µS/cm	11.41 mg/L	58.38 NTU	192.5 mV	23.60 ft	250.00 ml/min
6/18/2023 1:36 PM	05:02	5.87 pH	13.58 °C	115.09 µS/cm	11.25 mg/L	58.74 NTU	193.5 mV	23.60 ft	250.00 ml/min
6/18/2023 1:38 PM	07:33	5.89 pH	13.44 °C	115.11 µS/cm	11.35 mg/L	61.08 NTU	201.1 mV	23.60 ft	250.00 ml/min

Samples

Sample ID:	Description:
Mw13:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/19/2023 4:10:49 PM
Project: WAKS2510C_MW15
Operator Name: Ag

Location Name: MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23 ft Total Depth: 38 ft Initial Depth to Water: 29.60 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/19/2023 4:10 PM	00:00	6.23 pH	14.65 °C	454.74 µS/cm	0.31 mg/L	14.36 NTU	53.4 mV	29.60 ft	250.00 ml/min
6/19/2023 4:13 PM	02:40	6.28 pH	14.63 °C	450.80 µS/cm	0.26 mg/L	11.77 NTU	39.8 mV	29.60 ft	250.00 ml/min
6/19/2023 4:16 PM	05:20	6.29 pH	14.59 °C	451.08 µS/cm	0.24 mg/L	9.51 NTU	32.1 mV	29.60 ft	250.00 ml/min
6/19/2023 4:18 PM	08:00	6.31 pH	14.60 °C	450.54 µS/cm	0.23 mg/L	9.09 NTU	30.4 mV	29.60 ft	250.00 ml/min

Samples

Sample ID:	Description:
Mw15:g061923	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 11:18:36 AM
Project: WAKS2510C_MW15D
Operator Name: Ag

Location Name: MW-15D Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 55 ft Total Depth: 60 ft Initial Depth to Water: 29.80 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 57 ft Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 1.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 275 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 11:18 AM	00:00	6.12 pH	13.79 °C	269.33 µS/cm	3.16 mg/L	7.21 NTU	137.3 mV	29.80 ft	275.00 ml/min
6/18/2023 11:21 AM	03:12	6.31 pH	13.93 °C	282.79 µS/cm	3.31 mg/L	10.99 NTU	150.0 mV	29.80 ft	275.00 ml/min
6/18/2023 11:25 AM	06:24	6.38 pH	13.92 °C	285.79 µS/cm	3.40 mg/L	7.64 NTU	144.9 mV	29.80 ft	275.00 ml/min
6/18/2023 11:28 AM	09:36	6.42 pH	13.97 °C	297.23 µS/cm	3.54 mg/L	8.41 NTU	141.4 mV	29.80 ft	275.00 ml/min
6/18/2023 11:31 AM	12:48	6.45 pH	13.97 °C	324.50 µS/cm	3.91 mg/L	9.04 NTU	139.7 mV	29.80 ft	275.00 ml/min
6/18/2023 11:34 AM	16:00	6.47 pH	13.98 °C	360.95 µS/cm	4.64 mg/L	8.84 NTU	139.5 mV	29.80 ft	275.00 ml/min
6/18/2023 11:37 AM	19:12	6.47 pH	13.95 °C	373.22 µS/cm	4.97 mg/L	9.18 NTU	137.0 mV	29.80 ft	275.00 ml/min
6/18/2023 11:41 AM	22:24	6.48 pH	13.92 °C	374.20 µS/cm	5.08 mg/L	8.81 NTU	139.6 mV	29.80 ft	275.00 ml/min
6/18/2023 11:44 AM	25:36	6.49 pH	13.96 °C	379.49 µS/cm	5.11 mg/L	7.86 NTU	139.5 mV	29.80 ft	275.00 ml/min

Samples

Sample ID:	Description:
Mw15d:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 5:25:28 PM
Project: WAKS2510C_MW23
Operator Name: Ag

Location Name: MW-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25 ft Total Depth: 35 ft Initial Depth to Water: 28.65 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 33 ft Pump Intake From TOC: 31.5 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 5:25 PM	00:00	6.04 pH	15.73 °C	427.35 µS/cm	1.97 mg/L	1.19 NTU	98.0 mV	28.65 ft	200.00 ml/min
6/18/2023 5:28 PM	03:14	6.05 pH	15.14 °C	422.33 µS/cm	1.38 mg/L	2.63 NTU	97.8 mV	28.65 ft	200.00 ml/min
6/18/2023 5:31 PM	06:28	6.10 pH	15.14 °C	426.20 µS/cm	0.91 mg/L	2.10 NTU	90.1 mV	28.65 ft	200.00 ml/min
6/18/2023 5:35 PM	09:42	6.12 pH	15.05 °C	428.98 µS/cm	0.76 mg/L	1.80 NTU	87.7 mV	28.65 ft	200.00 ml/min
6/18/2023 5:38 PM	12:56	6.18 pH	15.09 °C	430.11 µS/cm	0.70 mg/L	0.98 NTU	82.4 mV	28.65 ft	200.00 ml/min
6/18/2023 5:41 PM	16:10	6.19 pH	15.09 °C	428.94 µS/cm	0.76 mg/L	0.94 NTU	82.0 mV	28.65 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw23:g061823	Vocs

Low-Flow Test Report:

Test Date / Time: 6/18/2023 3:48:49 PM
Project: WAKS2510C_MW101
Operator Name: Ag

Location Name: MW-101 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20 ft Total Depth: 30 ft Initial Depth to Water: 26.76 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 31 ft Pump Intake From TOC: 28.5 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 588683
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
6/18/2023 3:48 PM	00:00	6.07 pH	16.40 °C	389.36 µS/cm	4.89 mg/L	5.92 NTU	98.2 mV	26.76 ft	150.00 ml/min
6/18/2023 3:53 PM	04:11	6.13 pH	15.08 °C	397.37 µS/cm	3.14 mg/L	1.34 NTU	110.3 mV	26.76 ft	150.00 ml/min
6/18/2023 3:57 PM	08:22	6.18 pH	14.93 °C	396.65 µS/cm	2.77 mg/L	0.68 NTU	105.2 mV	26.76 ft	150.00 ml/min
6/18/2023 4:01 PM	12:33	6.20 pH	14.75 °C	393.59 µS/cm	2.82 mg/L	0.39 NTU	119.3 mV	26.76 ft	150.00 ml/min
6/18/2023 4:05 PM	16:44	6.20 pH	14.62 °C	392.06 µS/cm	2.74 mg/L	0.74 NTU	119.1 mV	26.76 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw101:g061823	Vocs

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	588683
Created	6/17/2023

Sensor	Conductivity
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Serial Number	920327
Last Calibrated	6/17/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.894
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	7,379.3 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,640.1 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,832.6 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor	pH/ORP
Serial Number	778941
Last Calibrated	6/17/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	-6.7 mV
Temperature	17.36 °C

Pre Measurement

pH	6.86 pH
pH mV	-6.7 mV

Post Measurement

pH	7.02 pH
pH mV	-6.6 mV

Slope and Offset 1

Slope	-57.64 mV/pH
Offset	-5.6 mV

ORP

ORP Solution	Quick-Cal
Offset	12.2 mV
Temperature	17.36 °C
Pre Measurement	221.6 mV
Post Measurement	235.0 mV

Sensor	Turbidity
Serial Number	999077
Last Calibrated	5/8/2023

Calibration Details

TSS Conversion Factor (mg/L)	0
Slope	0.9952562
Offset	1.05 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	99.48 NTU
Post Measurement	100.00 NTU

Sensor **RDO**

Serial Number	891173
Last Calibrated	5/8/2023

Calibration Details

Slope	1.047163
Offset	-0.08 mg/L

Calibration point 100%

Concentration	8.42 mg/L
Pre Measurement	96.43 %Sat
Post Measurement	100.00 %Sat
Temperature	22.42 °C
Barometric Pressure	1,020.1 mbar

Calibration point 0%

Concentration	0.08 mg/L
Pre Measurement	1.08 %Sat
Post Measurement	0.00 %Sat
Temperature	21.05 °C

Sensor **Barometric Pressure**

Serial Number	588683
Last Calibrated	Factory Defaults

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	588683
Created	6/18/2023

Sensor	Conductivity
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Serial Number	920327
Last Calibrated	6/18/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.984
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,207.8 µS/cm
Specific Conductivity	7,277.3 µS/cm

Post Measurement

Actual Conductivity	6,824.3 µS/cm
Specific Conductivity	8,000.0 µS/cm

Sensor	pH/ORP
Serial Number	778941
Last Calibrated	6/18/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	-19.8 mV
Temperature	17.31 °C

Pre Measurement

pH	7.34 pH
pH mV	-19.8 mV

Post Measurement

pH	7.02 pH
pH mV	-19.3 mV

Slope and Offset 1

Slope	-57.63 mV/pH
Offset	-18.7 mV

ORP

ORP Solution	Quick-Cal
Offset	-102.3 mV
Temperature	17.31 °C
Pre Measurement	337.3 mV
Post Measurement	235.1 mV

Sensor	Turbidity
Serial Number	999077
Last Calibrated	5/8/2023

Calibration Details

TSS Conversion Factor (mg/L)	0
Slope	0.9952562
Offset	1.05 NTU

Sensor	RDO
Serial Number	891173
Last Calibrated	Factory Defaults

Sensor	Barometric Pressure
Serial Number	588683
Last Calibrated	Factory Defaults

Calibration Report

Instrument Aqua TROLL 600
Serial Number 588683
Created 6/19/2023

Sensor **Conductivity**

Serial Number 920327
Last Calibrated 6/19/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.988
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,925.8 $\mu\text{S}/\text{cm}$
Specific Conductivity	7,981.1 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,942.2 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor	pH/ORP
Serial Number	778941
Last Calibrated	6/19/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	-18.2 mV
Temperature	18.08 °C

Pre Measurement

pH	6.99 pH
pH mV	-18.1 mV

Post Measurement

pH	7.02 pH
pH mV	-17.8 mV

Slope and Offset 1

Slope	-57.79 mV/pH
Offset	-17.0 mV

ORP

ORP Solution	Quick-Cal
Offset	-98.0 mV
Temperature	18.08 °C
Pre Measurement	228.6 mV
Post Measurement	234.0 mV

Sensor	Turbidity
Serial Number	999077
Last Calibrated	5/8/2023

Calibration Details

TSS Conversion Factor (mg/L)	0
Slope	0.9952562
Offset	1.05 NTU

Sensor	RDO
Serial Number	891173
Last Calibrated	Factory Defaults

Sensor	Barometric Pressure
Serial Number	588683
Last Calibrated	Factory Defaults



Appendix B.3

Q3 2023 Low-Flow Test Reports

Low-Flow Test Report:

Test Date / Time: 2023-09-25 1:02:16 PM
Project: WAKS2510C_MW1 (2)
Operator Name: Ag

Location Name: MW-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 22 ft Total Depth: 42 ft Initial Depth to Water: 29.40 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35.50 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.70 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-25 1:02 PM	00:00	4.69 pH	15.65 °C	2,128.9 µS/cm	3.09 mg/L	53.21 NTU	57.3 mV	29.60 ft	150.00 ml/min
2023-09-25 1:06 PM	04:31	4.69 pH	15.36 °C	2,138.1 µS/cm	1.06 mg/L	59.97 NTU	22.1 mV	30.20 ft	150.00 ml/min
2023-09-25 1:11 PM	09:02	4.70 pH	15.27 °C	2,139.2 µS/cm	0.75 mg/L	56.99 NTU	8.4 mV	30.60 ft	150.00 ml/min
2023-09-25 1:15 PM	13:33	4.70 pH	15.21 °C	2,140.1 µS/cm	0.65 mg/L	59.57 NTU	0.8 mV	31.10 ft	150.00 ml/min
2023-09-25 1:20 PM	18:04	4.70 pH	15.21 °C	2,140.9 µS/cm	0.62 mg/L	43.47 NTU	-4.5 mV	31.60 ft	150.00 ml/min
2023-09-25 1:24 PM	22:35	4.70 pH	15.28 °C	2,141.2 µS/cm	0.60 mg/L	62.02 NTU	-8.2 mV	32.10 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw1	Vocs
Fd1	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-24 4:20:25 PM
Project: WAKS2510C_MW2R (2)
Operator Name: Ag

Location Name: MW-2R Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 27.50 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 34 ft Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-24 4:20 PM	00:00	6.20 pH	15.19 °C	1,345.5 µS/cm	15.85 mg/L	20.57 NTU	145.8 mV	27.60 ft	200.00 ml/min
2023-09-24 4:23 PM	03:17	6.10 pH	14.93 °C	1,334.0 µS/cm	16.40 mg/L	18.66 NTU	156.5 mV	27.60 ft	200.00 ml/min
2023-09-24 4:26 PM	06:34	6.09 pH	14.86 °C	1,319.3 µS/cm	16.79 mg/L	14.64 NTU	162.2 mV	27.50 ft	200.00 ml/min
2023-09-24 4:30 PM	09:51	6.10 pH	14.82 °C	1,299.9 µS/cm	16.92 mg/L	10.44 NTU	165.8 mV	27.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw2r	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-23 2:37:45 PM
Project: WAKS2510C_MW4 (2)
Operator Name: Ag

Location Name: MW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25 ft Total Depth: 35 ft Initial Depth to Water: 22.50 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 28.50 ft Pump Intake From TOC: 27.50 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.10 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-23 2:37 PM	00:00	6.17 pH	14.70 °C	155.98 µS/cm	9.14 mg/L	59.04 NTU	136.2 mV	22.58 ft	300.00 ml/min
2023-09-23 2:39 PM	02:01	6.08 pH	14.74 °C	156.00 µS/cm	7.82 mg/L	38.37 NTU	137.1 mV	22.60 ft	300.00 ml/min
2023-09-23 2:41 PM	04:02	6.09 pH	14.62 °C	158.14 µS/cm	7.66 mg/L	34.78 NTU	134.4 mV	22.60 ft	300.00 ml/min
2023-09-23 2:43 PM	06:03	6.04 pH	14.63 °C	159.24 µS/cm	7.62 mg/L	66.57 NTU	137.2 mV	22.60 ft	300.00 ml/min

Samples

Sample ID:	Description:
Mw4	V0cs

Low-Flow Test Report:

Test Date / Time: 2023-09-24 9:59:15 AM
Project: WAKS2510C_MW5 (2)
Operator Name: Ag

Location Name: MW-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 28.36 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 37 ft Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.44 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-24 9:59 AM	00:00	6.51 pH	15.86 °C	399.66 µS/cm	8.44 mg/L	8.99 NTU	138.1 mV	28.75 ft	150.00 ml/min
2023-09-24 10:03 AM	04:34	6.53 pH	15.99 °C	393.09 µS/cm	8.47 mg/L	6.08 NTU	129.1 mV	28.79 ft	150.00 ml/min
2023-09-24 10:08 AM	09:08	6.46 pH	16.16 °C	391.69 µS/cm	8.37 mg/L	7.34 NTU	126.0 mV	28.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw5	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-24 1:06:40 PM
Project: WAKS2510C_MW6 (2)
Operator Name: Ag

Location Name: MW-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 29.95 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 37.5 ft Pump Intake From TOC: 36.50 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-24 1:06 PM	00:00	6.43 pH	16.17 °C	409.48 µS/cm	6.35 mg/L	8.92 NTU	143.3 mV	30.00 ft	150.00 ml/min
2023-09-24 1:11 PM	04:36	6.44 pH	15.60 °C	410.46 µS/cm	6.14 mg/L	1.87 NTU	141.0 mV	30.00 ft	150.00 ml/min
2023-09-24 1:15 PM	09:12	6.45 pH	15.28 °C	410.16 µS/cm	5.98 mg/L	1.77 NTU	132.4 mV	30.00 ft	150.00 ml/min
2023-09-24 1:20 PM	13:48	6.47 pH	15.17 °C	410.49 µS/cm	5.92 mg/L	0.79 NTU	125.9 mV	30.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw6	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-25 8:24:12 AM
Project: WAKS2510C_MW7 (2)
Operator Name: Ag

Location Name: MW-7 Well Diameter: 4 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 28.60 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35.5 ft Pump Intake From TOC: 34.5 ft Estimated Total Volume Pumped: 1.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.50 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-25 8:24 AM	00:00	5.80 pH	16.58 °C	681.48 µS/cm	2.49 mg/L	25.01 NTU	-20.4 mV	28.65 ft	100.00 ml/min
2023-09-25 8:30 AM	06:43	5.88 pH	15.86 °C	648.58 µS/cm	0.90 mg/L	15.43 NTU	-86.6 mV	28.90 ft	100.00 ml/min
2023-09-25 8:37 AM	13:26	5.91 pH	15.72 °C	643.54 µS/cm	0.69 mg/L	17.72 NTU	-107.7 mV	29.06 ft	100.00 ml/min
2023-09-25 8:44 AM	20:09	5.93 pH	15.63 °C	641.93 µS/cm	0.54 mg/L	22.62 NTU	-112.0 mV	29.20 ft	100.00 ml/min
2023-09-25 8:51 AM	26:52	5.94 pH	15.68 °C	640.53 µS/cm	0.46 mg/L	16.42 NTU	-112.9 mV	29.35 ft	100.00 ml/min
2023-09-25 8:57 AM	33:35	5.96 pH	15.68 °C	640.40 µS/cm	0.36 mg/L	14.29 NTU	-113.9 mV	29.55 ft	100.00 ml/min
2023-09-25 9:04 AM	40:18	5.96 pH	15.70 °C	639.75 µS/cm	0.34 mg/L	15.87 NTU	-114.0 mV	29.70 ft	100.00 ml/min
2023-09-25 9:11 AM	47:01	5.97 pH	15.68 °C	640.23 µS/cm	0.28 mg/L	13.32 NTU	-114.3 mV	29.85 ft	100.00 ml/min
2023-09-25 9:17 AM	53:44	5.98 pH	15.72 °C	640.52 µS/cm	0.27 mg/L	10.34 NTU	-115.6 mV	29.95 ft	100.00 ml/min
2023-09-25 9:24 AM	01:00:27	5.98 pH	15.74 °C	641.05 µS/cm	0.24 mg/L	16.23 NTU	-116.4 mV	30.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Mw7	Vocs
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Low-Flow Test Report:

Test Date / Time: 2023-09-23 1:18:50 PM
Project: WAKS2510C_MW-9 (2)
Operator Name: Ag

Location Name: MW-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 27.92 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 34.5 ft Pump Intake From TOC: 33.5 ft Estimated Total Volume Pumped: 2.00 gal Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-23 1:18 PM	00:00	6.68 pH	15.08 °C	483.35 µS/cm	7.59 mg/L	37.12 NTU	144.6 mV	28.05 ft	300.00 ml/min
2023-09-23 1:21 PM	02:12	6.68 pH	14.91 °C	483.89 µS/cm	7.44 mg/L	38.23 NTU	133.4 mV	28.05 ft	300.00 ml/min
2023-09-23 1:23 PM	04:24	6.66 pH	14.69 °C	484.86 µS/cm	7.25 mg/L	56.14 NTU	132.8 mV	28.05 ft	300.00 ml/min

Samples

Sample ID:	Description:
Mw9	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-25 10:31:31 AM
Project: WAKS2510C_MW11 (2)
Operator Name: Ag

Location Name: MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 30.06 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-25 10:31 AM	00:00	6.42 pH	15.25 °C	339.18 µS/cm	5.74 mg/L	12.23 NTU	-23.2 mV	30.05 ft	200.00 ml/min
2023-09-25 10:32 AM	01:22	6.42 pH	15.23 °C	339.70 µS/cm	5.64 mg/L	12.93 NTU	-19.1 mV	30.10 ft	200.00 ml/min
2023-09-25 10:36 AM	04:45	6.44 pH	15.19 °C	343.33 µS/cm	5.48 mg/L	9.92 NTU	-12.6 mV	30.10 ft	200.00 ml/min
2023-09-25 10:39 AM	08:08	6.44 pH	15.16 °C	349.20 µS/cm	5.40 mg/L	5.12 NTU	-6.6 mV	30.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw11	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-24 11:11:15 AM
Project: WAKS2510C_MW13 (2)
Operator Name: Ag

Location Name: MW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 20 ft Total Depth: 35 ft Initial Depth to Water: 24.93 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 31 ft Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 10	+/- 5	
2023-09-24 11:11 AM	00:00	6.08 pH	15.20 °C	126.64 µS/cm	8.69 mg/L	34.15 NTU	124.5 mV	25.15 ft	125.00 ml/min
2023-09-24 11:16 AM	05:02	5.87 pH	14.69 °C	125.61 µS/cm	8.80 mg/L	25.75 NTU	129.4 mV	25.20 ft	125.00 ml/min
2023-09-24 11:21 AM	10:04	5.92 pH	14.69 °C	125.47 µS/cm	8.73 mg/L	19.77 NTU	123.7 mV	25.25 ft	125.00 ml/min
2023-09-24 11:26 AM	15:06	5.98 pH	14.70 °C	125.31 µS/cm	8.50 mg/L	10.43 NTU	117.7 mV	25.25 ft	125.00 ml/min
2023-09-24 11:31 AM	20:08	6.02 pH	14.65 °C	125.25 µS/cm	8.66 mg/L	8.25 NTU	115.4 mV	25.25 ft	125.00 ml/min

Samples

Sample ID:	Description:
Mw13	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-25 11:45:29 AM
Project: WAKS2510C_MW15 (2)
Operator Name: Ag

Location Name: MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23 ft Total Depth: 38 ft Initial Depth to Water: 30.86 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-25 11:45 AM	00:00	6.37 pH	15.69 °C	472.35 µS/cm	2.48 mg/L	35.51 NTU	52.9 mV	30.85 ft	200.00 ml/min
2023-09-25 11:48 AM	03:23	6.33 pH	15.15 °C	473.90 µS/cm	0.85 mg/L	32.65 NTU	55.4 mV	30.87 ft	200.00 ml/min
2023-09-25 11:52 AM	06:46	6.35 pH	15.04 °C	473.07 µS/cm	0.74 mg/L	21.53 NTU	54.3 mV	30.85 ft	200.00 ml/min
2023-09-25 11:55 AM	10:09	6.36 pH	15.00 °C	470.90 µS/cm	0.69 mg/L	14.70 NTU	52.8 mV	30.86 ft	200.00 ml/min
2023-09-25 11:59 AM	13:32	6.36 pH	14.82 °C	468.03 µS/cm	0.75 mg/L	13.41 NTU	52.4 mV	30.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw15	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-24 8:17:02 AM
Project: WAKS2510C_MW15D (2)
Operator Name: Ag

Location Name: MW-15D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 55 ft Total Depth: 60 ft Initial Depth to Water: 31.20 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 53.5 ft Pump Intake From TOC: 52.5 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-24 8:17 AM	00:00	6.47 pH	15.07 °C	424.51 µS/cm	5.50 mg/L	7.09 NTU	183.8 mV	31.23 ft	200.00 ml/min
2023-09-24 8:21 AM	04:13	6.49 pH	14.72 °C	383.34 µS/cm	5.27 mg/L	8.15 NTU	156.5 mV	31.25 ft	200.00 ml/min
2023-09-24 8:25 AM	08:26	6.54 pH	14.57 °C	382.16 µS/cm	5.41 mg/L	11.39 NTU	142.8 mV	31.20 ft	200.00 ml/min
2023-09-24 8:29 AM	12:39	6.58 pH	14.58 °C	379.99 µS/cm	5.43 mg/L	10.47 NTU	133.0 mV	31.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw15d	Vocs

Low-Flow Test Report:

Test Date / Time: 2023-09-24 2:26:02 PM
Project: WAKS2510C_MW23 (3)
Operator Name: Ag

Location Name: MW-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 25 ft Total Depth: 35 ft Initial Depth to Water: 29.90 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 33 ft Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.10 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-24 2:26 PM	00:00	6.15 pH	17.96 °C	477.69 µS/cm	2.20 mg/L	2.29 NTU	137.7 mV	30.00 ft	150.00 ml/min
2023-09-24 2:30 PM	04:19	6.16 pH	18.43 °C	480.18 µS/cm	1.87 mg/L	0.79 NTU	138.5 mV	29.95 ft	150.00 ml/min
2023-09-24 2:34 PM	08:38	6.14 pH	18.00 °C	481.54 µS/cm	1.97 mg/L	0.32 NTU	138.4 mV	29.95 ft	150.00 ml/min
2023-09-24 2:38 PM	12:57	6.17 pH	17.65 °C	481.03 µS/cm	1.92 mg/L	0.15 NTU	134.8 mV	30.00 ft	150.00 ml/min
2023-09-24 2:43 PM	17:16	6.20 pH	17.41 °C	482.40 µS/cm	1.68 mg/L	0.00 NTU	130.3 mV	30.00 ft	150.00 ml/min
2023-09-24 2:47 PM	21:35	6.21 pH	17.19 °C	481.99 µS/cm	1.65 mg/L	0.00 NTU	125.9 mV	30.00 ft	150.00 ml/min
2023-09-24 2:51 PM	25:54	6.22 pH	17.04 °C	481.02 µS/cm	1.51 mg/L	0.00 NTU	122.0 mV	30.00 ft	150.00 ml/min
2023-09-24 2:56 PM	30:13	6.23 pH	16.96 °C	480.47 µS/cm	1.49 mg/L	0.00 NTU	119.5 mV	30.00 ft	150.00 ml/min
2023-09-24 3:00 PM	34:32	6.23 pH	16.95 °C	480.06 µS/cm	1.51 mg/L	0.00 NTU	117.4 mV	30.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw23	Vocs

Calibration Report

Instrument	Aqua TROLL 600 Vented
Serial Number	466586
Created	2023-09-23

Sensor	Conductivity
Serial Number	754103
Last Calibrated	2023-09-23

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	245.285
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	7,001.4 µS/cm
Specific Conductivity	7,842.6 µS/cm

Post Measurement

Actual Conductivity	7,142.0 µS/cm
Specific Conductivity	8,000.0 µS/cm

Sensor	Turbidity
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Serial Number	961196
Last Calibrated	2023-08-16

Calibration Details

Slope	0.9935757
Offset	1.20 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	99.46 NTU
Post Measurement	100.00 NTU

Sensor	RDO
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Serial Number	770424
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	704500
Last Calibrated	2023-09-23

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	-33.8 mV
Temperature	19.38 °C

Pre Measurement

pH	7.00 pH
pH mV	-33.8 mV

Post Measurement

pH	7.02 pH
pH mV	-33.1 mV

Slope and Offset 1

Slope	-58.05 mV/pH
Offset	-32.6 mV

ORP

ORP Solution	Quick Cal
Offset	-51.6 mV
Temperature	19.38 °C
Pre Measurement	231.0 mV
Post Measurement	232.0 mV

Sensor	Barometric Pressure
Serial Number	466586
Last Calibrated	Factory Defaults

Sensor	Pressure
Serial Number	456922
Last Calibrated	2023-08-16

Calibration Details

Zero Offset	-2.04 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi
Pre Measurement	-0.35 psi
Post Measurement	0.00 psi

Calibration Report

Instrument	Aqua TROLL 600 Vented
Serial Number	466586
Created	2023-09-24

Sensor	Conductivity
Serial Number	754103
Last Calibrated	2023-09-24

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.1
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,323.3 $\mu\text{S}/\text{cm}$
Specific Conductivity	7,588.2 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,666.4 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor	Turbidity
Serial Number	961196
Last Calibrated	2023-08-16

Calibration Details

Slope	0.9935757
Offset	1.20 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	99.46 NTU
Post Measurement	100.00 NTU

Sensor	RDO
Serial Number	770424
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	704500
Last Calibrated	2023-09-24

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	-32.9 mV
Temperature	16.27 °C

Pre Measurement

pH	7.01 pH
pH mV	-32.9 mV

Post Measurement

pH	7.02 pH
pH mV	-32.0 mV

Slope and Offset 1

Slope	-57.43 mV/pH
Offset	-31.8 mV

ORP

ORP Solution	Quick Cal
Offset	-50.8 mV
Temperature	16.27 °C
Pre Measurement	230.3 mV
Post Measurement	236.7 mV

Sensor	Barometric Pressure
Serial Number	466586
Last Calibrated	Factory Defaults

Sensor	Pressure
Serial Number	456922
Last Calibrated	2023-08-16

Calibration Details

Zero Offset	-2.04 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi
Pre Measurement	-0.35 psi
Post Measurement	0.00 psi

Calibration Report

Instrument	Aqua TROLL 600 Vented
Serial Number	466586
Created	2023-09-25

Sensor	Conductivity
Serial Number	754103
Last Calibrated	2023-09-25

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.049
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	7,272.0 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,468.8 $\mu\text{S}/\text{cm}$

Post Measurement

Actual Conductivity	6,869.5 $\mu\text{S}/\text{cm}$
Specific Conductivity	8,000.0 $\mu\text{S}/\text{cm}$

Sensor	Turbidity
Serial Number	961196
Last Calibrated	2023-08-16

Calibration Details

Slope	0.9935757
Offset	1.20 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	99.46 NTU
Post Measurement	100.00 NTU

Sensor	RDO
Serial Number	770424
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	704500
Last Calibrated	2023-09-25

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	-34.0 mV
Temperature	17.60 °C

Pre Measurement

pH	7.01 pH
pH mV	-32.3 mV

Post Measurement

pH	7.02 pH
pH mV	-33.1 mV

Slope and Offset 1

Slope	-57.69 mV/pH
Offset	-32.8 mV

ORP

ORP Solution	Quick Cal
Offset	-48.3 mV
Temperature	17.60 °C
Pre Measurement	237.9 mV
Post Measurement	234.7 mV

Sensor	Barometric Pressure
Serial Number	466586
Last Calibrated	Factory Defaults

Sensor	Pressure
Serial Number	456922
Last Calibrated	2023-08-16

Calibration Details

Zero Offset	-2.04 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi
Pre Measurement	-0.35 psi
Post Measurement	0.00 psi



Appendix B.4

Q4 2023 Low-Flow Test Reports

Low-Flow Test Report:

Test Date / Time: 12/2/2023 6:16:17 PM
Project: WAKS2510C_MW1 (3)
Operator Name: Ag

Location Name: MW-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 22 ft Total Depth: 42 ft Initial Depth to Water: 29.45 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.17 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/2/2023 6:16 PM	00:00	5.08 pH	11.56 °C	1,857.4 µS/cm	4.79 mg/L	68.21 NTU	53.0 mV	29.45 ft	150.00 ml/min
12/2/2023 6:20 PM	04:27	5.08 pH	11.83 °C	1,896.7 µS/cm	2.09 mg/L	78.82 NTU	49.2 mV	29.50 ft	150.00 ml/min
12/2/2023 6:25 PM	08:54	5.07 pH	11.17 °C	1,889.2 µS/cm	1.87 mg/L	74.81 NTU	49.2 mV	29.55 ft	150.00 ml/min
12/2/2023 6:29 PM	13:21	5.07 pH	10.91 °C	1,894.9 µS/cm	1.82 mg/L	65.86 NTU	48.6 mV	29.57 ft	150.00 ml/min
12/2/2023 6:34 PM	17:48	5.07 pH	10.82 °C	1,894.1 µS/cm	1.81 mg/L	62.17 NTU	50.0 mV	29.60 ft	150.00 ml/min
12/2/2023 6:38 PM	22:15	5.07 pH	10.64 °C	1,893.6 µS/cm	1.87 mg/L	58.80 NTU	50.4 mV	29.62 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw1	Vocs
Fd1	Vocs

Low-Flow Test Report:

Test Date / Time: 12/2/2023 1:10:13 PM
Project: WAKS2510C_MW2R (3)
Operator Name: Ag

Location Name: MW-2R Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 28.10 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/2/2023 1:10 PM	00:00	6.30 pH	12.67 °C	1,242.5 µS/cm	18.64 mg/L	18.75 NTU	225.7 mV	28.10 ft	200.00 ml/min
12/2/2023 1:13 PM	03:20	6.16 pH	13.16 °C	1,233.9 µS/cm	19.63 mg/L	21.96 NTU	224.8 mV	28.10 ft	200.00 ml/min
12/2/2023 1:16 PM	06:40	6.14 pH	13.33 °C	1,241.4 µS/cm	19.93 mg/L	19.30 NTU	223.2 mV	28.10 ft	200.00 ml/min
12/2/2023 1:20 PM	10:00	6.14 pH	13.33 °C	1,259.9 µS/cm	19.98 mg/L	14.26 NTU	225.0 mV	28.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw2r	VOCs

Low-Flow Test Report:

Test Date / Time: 2023-12-01 1:27:45 PM
Project: WAKS2510C_MW4 (2)
Operator Name: Ag

Location Name: MW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25 ft Total Depth: 35 ft Initial Depth to Water: 23.00 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 29 ft Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Vented Serial Number: 466586
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
2023-09-23 2:37 PM	00:00	6.39 pH	11.74 °C	190.68 µS/cm	8.50 mg/L	162.89 NTU	119.9 mV	23.00 ft	150.00 ml/min
2023-09-23 2:39 PM	04:03	6.21 pH	12.67 °C	146.21 µS/cm	8.06 mg/L	217.37 NTU	150.6 mV	23.00 ft	150.00 ml/min
2023-09-23 2:41 PM	08:06	6.22 pH	12.73 °C	145.13 µS/cm	7.99 mg/L	155.02 NTU	162.0 mV	23.00 ft	150.00 ml/min
2023-09-23 2:43 PM	12:09	6.22 pH	12.86 °C	144.69 µS/cm	7.97 mg/L	128.32 NTU	169.1 mV	23.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw4	V0cs

Low-Flow Test Report:

Test Date / Time: 12/1/2023 4:24:33 PM
Project: WAKS2510C_MW5 (3)
Operator Name: Ag

Location Name: MW-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 29.30 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/1/2023 4:24 PM	00:00	6.82 pH	12.53 °C	345.72 µS/cm	8.63 mg/L	12.73 NTU	138.0 mV	29.30 ft	150.00 ml/min
12/1/2023 4:29 PM	04:31	6.78 pH	13.14 °C	344.08 µS/cm	8.18 mg/L	8.53 NTU	146.2 mV	29.30 ft	150.00 ml/min
12/1/2023 4:33 PM	09:02	6.77 pH	13.12 °C	343.56 µS/cm	8.00 mg/L	5.65 NTU	150.9 mV	29.30 ft	150.00 ml/min
12/1/2023 4:38 PM	13:33	6.76 pH	13.08 °C	343.57 µS/cm	7.93 mg/L	6.26 NTU	153.5 mV	29.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw5	VOCs

Low-Flow Test Report:

Test Date / Time: 12/2/2023 11:35:51 AM
Project: WAKS2510C_MW6 (3)
Operator Name: Ag

Location Name: MW-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.5 ft Total Depth: 41.5 ft Initial Depth to Water: 30.65 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 37 ft Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/2/2023 11:35 AM	00:00	6.43 pH	13.05 °C	391.45 µS/cm	6.58 mg/L	2.20 NTU	229.5 mV	30.65 ft	150.00 ml/min
12/2/2023 11:40 AM	04:34	6.45 pH	13.11 °C	377.79 µS/cm	6.15 mg/L	1.08 NTU	224.7 mV	30.65 ft	150.00 ml/min
12/2/2023 11:44 AM	09:08	6.47 pH	13.09 °C	380.06 µS/cm	6.10 mg/L	0.41 NTU	223.0 mV	30.65 ft	150.00 ml/min
12/2/2023 11:49 AM	13:42	6.47 pH	13.19 °C	378.04 µS/cm	6.05 mg/L	0.27 NTU	220.0 mV	30.65 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw6	Vocs

Low-Flow Test Report:

Test Date / Time: 12/2/2023 2:31:35 PM
Project: WAKS2510C_MW7 (4)
Operator Name: Ag

Location Name: MW-7 Well Diameter: 4 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 29.23 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/2/2023 2:31 PM	00:00	6.23 pH	12.31 °C	541.36 µS/cm	0.66 mg/L	87.49 NTU	22.4 mV	29.23 ft	150.00 ml/min
12/2/2023 2:36 PM	04:27	6.23 pH	12.26 °C	525.57 µS/cm	0.00 mg/L	81.50 NTU	32.1 mV	29.25 ft	150.00 ml/min
12/2/2023 2:40 PM	08:54	6.23 pH	11.80 °C	521.35 µS/cm	0.00 mg/L	75.79 NTU	40.4 mV	29.27 ft	150.00 ml/min
12/2/2023 2:44 PM	13:21	6.22 pH	11.70 °C	521.29 µS/cm	0.00 mg/L	82.35 NTU	42.4 mV	29.29 ft	150.00 ml/min
12/2/2023 2:49 PM	17:48	6.23 pH	11.71 °C	521.92 µS/cm	0.00 mg/L	77.59 NTU	45.3 mV	29.31 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw7	VOCs

Low-Flow Test Report:

Test Date / Time: 12/1/2023 12:03:59 PM
Project: WAKS2510C_MW-9 (3)
Operator Name: Ag

Location Name: MW-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 28.41 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 35 ft Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/1/2023 12:03 PM	00:00	6.45 pH	12.79 °C	528.26 µS/cm	6.42 mg/L	70.21 NTU	112.6 mV	28.41 ft	200.00 ml/min
12/1/2023 12:07 PM	03:20	6.45 pH	13.12 °C	517.42 µS/cm	6.16 mg/L	59.98 NTU	147.0 mV	28.41 ft	200.00 ml/min
12/1/2023 12:10 PM	06:40	6.46 pH	13.17 °C	516.60 µS/cm	6.12 mg/L	44.64 NTU	151.0 mV	28.41 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw9	Vocs

Low-Flow Test Report:

Test Date / Time: 12/2/2023 3:39:46 PM
Project: WAKS2510C_MW11 (3)
Operator Name: Ag

Location Name: MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 20 ft Total Depth: 40 ft Initial Depth to Water: 30.75 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 1 gal Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/2/2023 3:39 PM	00:00	6.65 pH	13.15 °C	286.30 µS/cm	7.87 mg/L	12.21 NTU	84.6 mV	30.78 ft	150.00 ml/min
12/2/2023 3:44 PM	04:31	6.57 pH	13.97 °C	280.75 µS/cm	6.60 mg/L	6.36 NTU	120.7 mV	30.80 ft	150.00 ml/min
12/2/2023 3:48 PM	09:02	6.66 pH	14.26 °C	283.92 µS/cm	6.49 mg/L	5.13 NTU	127.9 mV	30.81 ft	150.00 ml/min
12/2/2023 3:53 PM	13:33	6.63 pH	14.22 °C	295.43 µS/cm	6.31 mg/L	2.78 NTU	138.3 mV	30.82 ft	150.00 ml/min
12/2/2023 3:57 PM	18:04	6.54 pH	14.03 °C	311.49 µS/cm	6.15 mg/L	2.78 NTU	149.5 mV	30.82 ft	150.00 ml/min
12/2/2023 4:02 PM	22:35	6.62 pH	14.05 °C	321.95 µS/cm	6.02 mg/L	1.39 NTU	147.8 mV	30.82 ft	150.00 ml/min
12/2/2023 4:06 PM	27:06	6.60 pH	13.96 °C	336.31 µS/cm	5.88 mg/L	0.93 NTU	152.8 mV	30.82 ft	150.00 ml/min
12/2/2023 4:11 PM	31:37	6.56 pH	14.02 °C	347.87 µS/cm	5.76 mg/L	0.65 NTU	158.1 mV	30.82 ft	150.00 ml/min
12/2/2023 4:15 PM	36:08	6.61 pH	13.99 °C	357.10 µS/cm	5.65 mg/L	0.49 NTU	157.8 mV	30.82 ft	150.00 ml/min

Samples

Sample ID:	Description:
Mw11	Vocs

Low-Flow Test Report:

Test Date / Time: 12/1/2023 5:26:46 PM
Project: WAKS2510C_MW13 (3)
Operator Name:

Location Name: MW-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 20 ft Total Depth: 35 ft Initial Depth to Water: 25.60 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 31 ft Estimated Total Volume Pumped: 0.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 130 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10	+/- 10	+/- 5	
12/1/2023 5:26 PM	00:00	6.34 pH	12.15 °C	124.96 µS/cm	9.77 mg/L	25.06 NTU	161.2 mV	25.60 ft	130.00 ml/min
12/1/2023 5:31 PM	04:50	6.23 pH	12.20 °C	114.74 µS/cm	9.28 mg/L	19.69 NTU	206.6 mV	25.60 ft	130.00 ml/min
12/1/2023 5:36 PM	09:40	6.20 pH	12.01 °C	113.20 µS/cm	9.12 mg/L	12.34 NTU	210.2 mV	25.60 ft	130.00 ml/min
12/1/2023 5:41 PM	14:30	6.23 pH	11.92 °C	113.17 µS/cm	9.05 mg/L	8.89 NTU	209.5 mV	25.60 ft	130.00 ml/min

Samples

Sample ID:	Description:
Mw13	Vocs

Low-Flow Test Report:

Test Date / Time: 12/2/2023 4:58:51 PM
Project: WAKS2510C_MW15 (3)
Operator Name: Ag

Location Name: MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23 ft Total Depth: 38 ft Initial Depth to Water: 31.60 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 36 ft Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 0.75 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/2/2023 4:58 PM	00:00	6.67 pH	12.07 °C	438.96 µS/cm	4.66 mg/L	70.98 NTU	129.0 mV	31.60 ft	200.00 ml/min
12/2/2023 5:02 PM	03:23	6.61 pH	12.50 °C	446.80 µS/cm	1.70 mg/L	56.03 NTU	142.7 mV	31.60 ft	200.00 ml/min
12/2/2023 5:05 PM	06:46	6.62 pH	12.57 °C	445.77 µS/cm	1.30 mg/L	63.00 NTU	147.9 mV	31.60 ft	200.00 ml/min
12/2/2023 5:09 PM	10:09	6.60 pH	12.63 °C	441.93 µS/cm	1.14 mg/L	62.45 NTU	152.8 mV	31.60 ft	200.00 ml/min
12/2/2023 5:12 PM	13:32	6.61 pH	12.62 °C	439.35 µS/cm	1.06 mg/L	73.72 NTU	156.1 mV	31.60 ft	200.00 ml/min
12/2/2023 5:15 PM	16:55	6.61 pH	12.64 °C	439.06 µS/cm	0.99 mg/L	59.58 NTU	158.1 mV	31.60 ft	200.00 ml/min
12/2/2023 5:19 PM	20:18	6.61 pH	12.62 °C	437.53 µS/cm	0.95 mg/L	62.30 NTU	160.0 mV	31.60 ft	200.00 ml/min
12/2/2023 5:22 PM	23:41	6.60 pH	12.63 °C	436.90 µS/cm	0.92 mg/L	51.73 NTU	161.9 mV	31.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw15	Vocs

Low-Flow Test Report:

Test Date / Time: 12/1/2023 2:49:38 PM
Project: WAKS2510C_MW15D (3)
Operator Name: Ag

Location Name: MW-15D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 55 ft Total Depth: 60 ft Initial Depth to Water: 31.70 ft	Pump Type: Geoprobe Bladder Pump Tubing Type: PTFE Tubing Inner Diameter: 0.25 in Tubing Length: 53 ft Pump Intake From TOC: 52 ft Estimated Total Volume Pumped: 1.25 gal Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 600 Serial Number: 565268
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 3 %	+/- 3 %	+/- 10 %	+/- 10 %	+/- 10	+/- 5	
12/1/2023 2:49 PM	00:00	6.68 pH	11.82 °C	244.41 µS/cm	9.25 mg/L	52.26 NTU	166.5 mV	31.70 ft	200.00 ml/min
12/1/2023 2:53 PM	04:12	6.75 pH	12.44 °C	263.37 µS/cm	2.16 mg/L	33.91 NTU	168.8 mV	31.70 ft	200.00 ml/min
12/1/2023 2:58 PM	08:24	6.75 pH	12.76 °C	271.28 µS/cm	1.77 mg/L	24.54 NTU	167.5 mV	31.70 ft	200.00 ml/min
12/1/2023 3:02 PM	12:36	6.74 pH	13.09 °C	294.40 µS/cm	2.58 mg/L	26.28 NTU	169.9 mV	31.70 ft	200.00 ml/min
12/1/2023 3:06 PM	16:48	6.83 pH	13.06 °C	316.09 µS/cm	3.76 mg/L	19.00 NTU	169.4 mV	31.70 ft	200.00 ml/min
12/1/2023 3:10 PM	21:00	6.85 pH	13.22 °C	330.87 µS/cm	4.64 mg/L	13.14 NTU	172.6 mV	31.70 ft	200.00 ml/min
12/1/2023 3:14 PM	25:12	6.89 pH	13.26 °C	336.26 µS/cm	5.08 mg/L	20.90 NTU	173.4 mV	31.70 ft	200.00 ml/min
12/1/2023 3:19 PM	29:24	6.88 pH	13.23 °C	338.62 µS/cm	5.19 mg/L	12.74 NTU	175.9 mV	31.70 ft	200.00 ml/min
12/1/2023 3:23 PM	33:36	6.85 pH	13.19 °C	341.22 µS/cm	5.28 mg/L	21.62 NTU	179.6 mV	31.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
Mw15d	Vocs

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	565268
Created	12/1/2023

Sensor	Conductivity
Serial Number	978943
Last Calibrated	12/1/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.917
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	5,697.6 $\mu\text{S/cm}$
Specific Conductivity	7,834.7 $\mu\text{S/cm}$

Post Measurement

Actual Conductivity	5,817.8 $\mu\text{S/cm}$
Specific Conductivity	8,000.0 $\mu\text{S/cm}$

Sensor	pH/ORP
Serial Number	944302
Last Calibrated	12/1/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.03 pH
pH mV	-24.4 mV
Temperature	10.72 °C

Pre Measurement

pH	6.99 pH
pH mV	-24.2 mV

Post Measurement

pH	7.03 pH
pH mV	-23.2 mV

Slope and Offset 1

Slope	-56.33 mV/pH
Offset	-22.7 mV

ORP

ORP Solution	Quick-Cal
Offset	37.5 mV
Temperature	10.72 °C
Pre Measurement	238.8 mV
Post Measurement	245.1 mV

Sensor	RDO
Serial Number	984910
Last Calibrated	11/20/2023

Calibration Details

Slope	1.061472
Offset	-0.06 mg/L

Calibration point 100%

Concentration	8.99 mg/L
Pre Measurement	94.19 %Sat
Post Measurement	100.00 %Sat
Temperature	18.28 °C
Barometric Pressure	1,021.4 mbar

Calibration point 0%

Concentration	0.05 mg/L
Pre Measurement	0.67 %Sat
Post Measurement	0.00 %Sat
Temperature	18.17 °C

Sensor	Turbidity
Serial Number	1036744
Last Calibrated	11/20/2023

Calibration Details

TSS Conversion Factor (mg/L)	0
Slope	0.8481856
Offset	1.06 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	116.87 NTU
Post Measurement	100.00 NTU

Sensor	Barometric Pressure
Serial Number	565268
Last Calibrated	Factory Defaults

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	565268
Created	12/2/2023

Sensor	Conductivity
Serial Number	978943
Last Calibrated	12/2/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.919
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,119.0 $\mu\text{S/cm}$
Specific Conductivity	7,951.9 $\mu\text{S/cm}$

Post Measurement

Actual Conductivity	6,156.0 $\mu\text{S/cm}$
Specific Conductivity	8,000.0 $\mu\text{S/cm}$

Sensor	pH/ORP
Serial Number	944302
Last Calibrated	12/2/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.03 pH
pH mV	-22.0 mV
Temperature	12.93 °C

Pre Measurement

pH	6.98 pH
pH mV	-21.9 mV

Post Measurement

pH	7.03 pH
pH mV	-21.1 mV

Slope and Offset 1

Slope	-56.77 mV/pH
Offset	-20.3 mV

ORP

ORP Solution	Quick-Cal
Offset	25.2 mV
Temperature	12.93 °C
Pre Measurement	254.2 mV
Post Measurement	241.7 mV

Sensor	RDO
Serial Number	984910
Last Calibrated	11/20/2023

Calibration Details

Slope	1.061472
Offset	-0.06 mg/L

Calibration point 100%

Concentration	8.99 mg/L
Pre Measurement	94.19 %Sat
Post Measurement	100.00 %Sat
Temperature	18.28 °C
Barometric Pressure	1,021.4 mbar

Calibration point 0%

Concentration	0.05 mg/L
Pre Measurement	0.67 %Sat
Post Measurement	0.00 %Sat
Temperature	18.17 °C

Sensor	Turbidity
Serial Number	1036744
Last Calibrated	11/20/2023

Calibration Details

TSS Conversion Factor (mg/L)	0
Slope	0.8481856
Offset	1.06 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	116.87 NTU
Post Measurement	100.00 NTU

Sensor	Barometric Pressure
Serial Number	565268
Last Calibrated	Factory Defaults



Appendix C

Historical Data



Appendix C.1

Historical Monitoring Well Gauging Data

Appendix C.1. Historical Monitoring Well Gauging Data

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Monitoring Well Construction Information						Gauging Data									
	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)				
			Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake		
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	1/25/08	NM	29.83	NM	NA	0.00	250.88	NM	NA	
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	5/1/08	NM	29.11	NM	NA	0.00	251.60	NM	NA	
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	9/26/08	NM	29.97	NM	NA	0.00	250.74	NM	NA	
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	10/17/08	NM	30.12	NM	NA	0.00	250.59	NM	NA	
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	9/30/09	NM	30.59	NM	NA	0.00	250.12	NM	NA	
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	11/11/09	NM	30.90	NM	NA	0.00	249.81	NM	NA	
MW-1	2.0	22.0	- 42.0	280.71	258.71	238.71	1/21/10	NM	29.98	NM	NA	0.00	250.73	NM	NA	
MW-1	2.0	22.0	- 42.0	280.60	258.71	238.71	6/21/10	NM	28.31	NM	NA	0.00	252.29	NM	NA	
MW-1	2.0	22.0	- 42.0	280.60	258.71	238.71	11/21/11	NM	30.31	NM	NA	0.00	250.29	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	7/30/12	NM	30.03	NM	NA	0.00	250.84	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	8/2/12	NM	30.56	NM	NA	0.00	250.31	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	11/2/12	NM	31.25	NM	NA	0.00	249.62	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	11/7/12	NM	32.10	NM	NA	0.00	248.77	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	2/4/13	NM	29.90	NM	NA	0.00	250.97	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	2/7/13	NM	29.90	NM	NA	0.00	250.97	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	6/3/13	25.90	29.10	NM	NA	3.20	251.77	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	6/10/13	NM	29.01	NM	NA	3.30	251.86	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	11/12/13	NM	31.55	NM	NA	0.00	249.32	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	5/21/14	NM	28.53	NM	NA	0.00	252.34	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	7/24/14	NM	30.75	NM	NA	0.00	250.12	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	12/6/16	No EOS	28.10	40.55	NA	0.00	252.77	240.32	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	3/13/17	No EOS	25.26	40.55	32.91	0.00	255.61	240.32	247.96	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	6/26/17	No EOS	24.85	40.58	32.72	0.00	256.02	240.29	248.15	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	9/18/17	No EOS	26.78	40.58	33.68	0.00	254.09	240.29	247.19	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	2/27/18	No EOS	27.13	NM	NA	0.00	253.74	NM	NA	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	9/30/21	No EOS	29.69	40.45	35.07	0.00	251.18	240.42	245.80	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	3/10/23	No EOS	28.72	40.56	34.50	0.00	252.15	240.31	246.37	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	6/17/23	No EOS	28.13	40.75	34.00	0.00	252.74	240.12	246.87	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	9/23/23	No EOS	29.40	40.81	35.50	0.00	251.47	240.06	245.37	
MW-1	2.0	22.0	- 42.0	280.87	258.71	238.71	11/30/23	No EOS	29.97	40.65	35.00	0.00	250.90	240.22	245.87	
MW-1D	2.0	50.0	- 55.0	280.30	230.30	225.30	5/1/08	NM	28.72	NM	NA	0.00	251.58	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.30	230.30	225.30	9/26/08	NM	29.59	NM	NA	0.00	250.71	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.30	230.30	225.30	10/17/08	NM	29.70	NM	NA	0.00	250.80	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.30	230.30	225.30	9/30/09	NM	30.69	NM	NA	0.00	249.61	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.30	230.30	225.30	11/11/09	NM	30.59	NM	NA	0.00	249.71	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.30	230.30	225.30	1/21/10	NM	29.68	NM	NA	0.00	250.62	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.34	230.30	225.30	6/21/10	NM	28.07	NM	NA	0.00	252.27	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.34	230.30	225.30	11/21/11	NM	27.82	NM	NA	0.00	252.52	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	7/30/12	NM	26.85	NM	NA	0.00	253.48	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	8/2/12	NM	27.05	NM	NA	0.00	253.28	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	11/6/12	NM	28.82	NM	NA	0.00	251.51	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	2/4/13	NM	27.10	NM	NA	0.00	253.23	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	2/7/13	NM	27.10	NM	NA	0.00	253.23	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	6/3/13	No EOS	25.66	NM	NA	0.00	254.67	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	6/5/13	NM	25.63	NM	NA	0.00	254.70	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	11/12/13	No EOS	27.81	NM	NA	0.00	252.52	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	5/21/14	No EOS	26.78	NM	NA	0.00	253.55	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	7/24/14	No EOS	27.08	NM	NA	0.00	253.25	NM	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	12/6/16	NM	27.53	52.91	NA	0.00	252.80	227.42	NA	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	3/13/17	NM	25.72	52.75	49.00	0.00	254.61	227.58	231.33	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	6/26/17	NM	24.35	52.91	50.00	0.00	255.98	227.42	230.33	
MW-1D	2.0	50.0	- 55.0	280.33	230.30	225.30	9/18/17	NM	26.28	52.91	51.46	0.00	254.05	227.42	228.87	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	1/25/08	NM	27.97	NM	NA	0.00	251.00	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	5/1/08	NM	27.22	NM	NA	0.00	251.75	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	10/17/08	NM	29.70	NM	NA	0.00	249.27	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	9/30/09	NM	28.74	NM	NA	0.00	250.23	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	11/11/09	NM	29.09	NM	NA	0.00	249.88	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	1/21/10	NM	28.17	NM	NA	0.00	250.80	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	6/21/10	NM	26.75	NM	NA	0.00	252.22	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	7/30/12	NM	28.95	NM	NA	0.00	250.02	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	8/2/12	NM	29.60	NM	NA	0.00	249.37	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	11/2/12	NM	30.80	NM	NA	0.00	248.17	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	11/6/12	NM	30.75	NM	NA	0.00	248.22	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	2/4/13	NM	27.90	NM	NA	0.00	251.07	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	2/6/13	NM	29.70	NM	NA	0.00	249.27	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	6/3/13	23.84	28.60	NM	NA	4.76	250.37	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	6/10/13	23.84	28.40	NM	NA	4.56	250.57	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	7/24/14	23.00	26.00	NM	NA	3.00	252.97	NM	NA	
MW-2	4.0	20.0	- 40.0	278.97	258.97	238.97	12/6/16	Unable to find well; presumed missing								

Appendix C.1. Historical Monitoring Well Gauging Data

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Monitoring Well Construction Information							Gauging Data								
Location	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)			
			Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake	
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	11/2/12	NM	30.70	NM	NA	0.00	248.93	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	11/6/12	NM	30.70	NM	NA	0.00	248.93	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	2/4/13	NM	28.10	NM	NA	0.00	251.53	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	2/7/13	NM	28.10	NM	NA	0.00	251.53	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	6/3/13	NM	27.30	NM	NA	0.00	252.33	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	249.63	6/10/13	NM	27.10	NM	NA	0.00	252.53	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	7/24/14	23.00	26.00	NM	NA	0.00	253.63	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	12/8/16	25.31	NM	29.21	NA	>3.0	NM	250.42	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	3/13/17	24.75	NM	NM	NA	>3.0	NM	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	6/27/17	23.48	NM	NM	NA	>3.0	NM	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	9/18/17	25.31	NM	NM	NA	0.40	NM	NM	NA
MW-3	4.0	20.0	- 40.0	279.63	259.63	239.63	2/27/18	25.72	NM	NM	NA	0.20	NM	NM	NA
MW-3R	2.0	20.0	- 40.0	279.59	259.59	239.59	9/30/21	No EOS	28.41	38.66	33.54	0.00	251.18	NM	NA
MW-3R	2.0	20.0	- 40.0	279.59	259.59	239.59	3/10/23	No EOS	27.34	29.00	28.00	0.00	252.25	250.59	251.59
MW-3R	2.0	20.0	- 40.0	279.59	259.59	239.59	6/17/23	No EOS	26.75	29.05	28.50	0.00	252.84	250.54	251.09
MW-3R	2.0	20.0	- 40.0	279.59	259.59	239.59	9/23/23	No EOS	27.95	29.30	NA	0.00	251.64	250.29	NA
MW-3R	2.0	20.0	- 40.0	279.59	259.59	239.59	11/30/23	No EOS	28.60	29.10	NA	0.00	250.99	250.49	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	5/1/08	NM	22.16	NM	NA	0.00	251.78	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	9/26/08	NM	23.11	NM	NA	0.00	250.83	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	10/17/08	NM	23.31	NM	NA	0.00	250.63	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	9/30/09	NM	23.73	NM	NA	0.00	250.21	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	11/11/09	NM	24.01	NM	NA	0.00	249.93	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	1/21/10	NM	22.95	NM	NA	0.00	250.99	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	6/21/10	NM	22.47	NM	NA	0.00	251.47	NM	NA
MW-4	2.0	25.0	- 35.0	273.94	248.94	238.94	11/21/11	NM	21.46	NM	NA	0.00	252.48	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	7/30/12	NM	20.36	NM	NA	0.00	253.57	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	7/31/12	NM	20.39	NM	NA	0.00	253.54	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	11/2/12	NM	21.75	NM	NA	0.00	252.18	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	11/5/12	NM	21.79	NM	NA	0.00	252.14	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	2/4/13	NM	21.10	NM	NA	0.00	252.83	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	2/5/13	NM	21.10	NM	NA	0.00	252.83	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	6/3/13	No EOS	19.20	NM	NA	0.00	254.73	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	6/5/13	NM	19.20	NM	NA	0.00	254.73	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	11/12/13	No EOS	21.24	NM	NA	0.00	252.69	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	5/21/14	No EOS	20.25	NM	NA	0.00	253.68	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	7/24/14	No EOS	20.72	NM	NA	0.00	253.21	NM	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	12/6/16	NM	21.15	32.22	NA	0.00	252.78	241.71	NA
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	3/13/17	NM	19.23	32.07	28.54	0.00	254.70	241.86	245.39
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	6/26/17	NM	18.07	32.17	28.59	0.00	255.86	241.76	245.34
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	9/18/17	NM	20.04	32.17	28.59	0.00	253.89	241.76	245.34
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	9/30/21	No EOS	22.79	33.26	28.63	0.00	251.14	240.67	245.30
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	3/10/23	No EOS	21.56	32.14	28.50	0.00	252.37	241.79	245.43
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	6/17/23	No EOS	21.15	32.45	29.00	0.00	252.78	241.48	244.93
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	9/23/23	No EOS	22.50	32.40	27.50	0.00	251.43	241.53	246.43
MW-4	2.0	25.0	- 35.0	273.93	248.93	238.93	11/30/23	No EOS	22.95	32.25	28.00	0.00	250.98	241.68	245.93
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	5/1/08	NM	28.21	NM	NA	0.00	251.80	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	9/26/08	NM	29.08	NM	NA	0.00	250.93	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	10/17/08	NM	29.22	NM	NA	0.00	250.79	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	9/30/09	NM	29.83	NM	NA	0.00	250.18	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	11/11/09	NM	30.00	NM	NA	0.00	250.01	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	1/21/10	NM	29.10	NM	NA	0.00	250.91	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	6/21/10	NM	27.49	NM	NA	0.00	252.52	NM	NA
MW-5	2.0	31.5	- 41.5	280.01	248.51	238.51	11/21/11	NM	27.40	NM	NA	0.00	252.61	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	7/30/12	NM	26.50	NM	NA	0.00	253.50	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	8/1/12	NM	26.26	NM	NA	0.00	253.74	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	11/2/12	NM	27.40	NM	NA	0.00	252.60	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	11/5/12	NM	27.47	NM	NA	0.00	252.53	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	2/4/13	NM	26.25	NM	NA	0.00	253.75	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	6/3/13	No EOS	25.11	NM	NA	0.00	254.89	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	6/6/13	NM	25.03	NM	NA	0.00	254.97	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	11/12/13	No EOS	27.27	NM	NA	0.00	252.73	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	5/21/14	No EOS	26.18	NM	NA	0.00	253.82	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	7/24/14	No EOS	26.52	NM	NA	0.00	253.48	NM	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	12/6/16	NM	27.16	40.45	NA	0.00	252.84	239.55	NA
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	3/13/17	NM	25.70	40.27	38.89	0.00	254.30	239.73	241.11
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	6/26/17	NM	23.78	40.41	35.96	0.00	256.22	239.59	244.04
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	9/18/17	NM	24.75	40.41	35.96	0.00	255.25	239.59	244.04
MW-5	2.0	31.5	- 41.5	280.00	248.50	238.50	9/30/21	No EOS	28.62	40.69	36.04				

Appendix C.1. Historical Monitoring Well Gauging Data

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Monitoring Well Construction Information						Gauging Data									
	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)				
			Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake		
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	2/4/13	NM	26.74	NM	NA	0.00	254.67	NM	NA	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	6/3/13	No EOS	26.74	NM	NA	0.00	254.67	NM	NA	
MW-6	2.0	31.5	- 41.5	281.41	259.91	249.91	6/7/13	NM	26.75	NM	NA	0.00	254.66	NM	NA	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	11/12/13	No EOS	28.91	NM	NA	0.00	252.50	NM	NA	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	5/21/14	No EOS	27.78	NM	NA	0.00	253.63	NM	NA	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	7/24/14	No EOS	28.25	NM	NA	0.00	253.16	NM	NA	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	12/6/16	NM	28.83	38.28	36.00	0.00	252.58	243.13	245.41	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	3/13/17	NM	26.86	40.70	36.10	0.00	254.55	240.71	245.31	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	6/26/17	NM	25.43	40.84	36.17	0.00	255.98	240.57	245.24	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	9/18/17	NM	27.33	40.84	34.09	0.00	254.08	240.57	247.32	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	9/30/21	No EOS	28.19	39.68	25.94	0.00	253.22	241.73	255.47	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	3/10/23	No EOS	29.13	40.33	35.00	0.00	252.28	241.08	246.41	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	6/17/23	No EOS	28.71	41.25	35.00	0.00	252.70	240.16	246.41	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	9/23/23	No EOS	30.00	41.20	36.50	0.00	251.41	240.21	244.91	
MW-6	2.0	31.5	- 41.5	281.41	249.91	239.91	11/30/23	No EOS	30.50	41.15	36.00	0.00	250.91	240.26	245.41	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	9/26/08	NM	29.37	NM	NA	0.00	250.76	NM	NA	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	10/17/08	NM	29.51	NM	NA	0.00	250.62	NM	NA	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	9/30/09	NM	29.96	NM	NA	0.00	250.17	NM	NA	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	11/11/09	NM	30.30	NM	NA	0.00	249.83	NM	NA	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	1/21/10	NM	29.43	NM	NA	0.00	250.70	NM	NA	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	6/21/10	NM	27.82	NM	NA	0.00	252.31	NM	NA	
MW-7	4.0	20.0	- 40.0	280.13	260.13	240.13	11/21/11	NM	28.38	NM	NA	0.00	251.75	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	7/30/12	NM	28.15	NM	NA	0.00	251.97	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	8/2/12	NM	28.20	NM	NA	0.00	251.92	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	11/2/12	NM	30.25	NM	NA	0.00	249.87	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	11/7/12	NM	31.80	NM	NA	0.00	248.32	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	2/4/13	NM	29.90	NM	NA	0.00	250.22	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	2/7/13	NM	29.90	NM	NA	0.00	250.22	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	6/3/13	25.19	27.40	NM	NA	2.21	254.82	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	6/10/13	25.19	27.30	NM	NA	2.11	252.82	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	11/12/13	25.19	28.85	NM	NA	3.66	254.75	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	5/21/14	26.58	26.68	NM	NA	0.10	253.54	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	7/24/14	NM	27.00	NM	NA	0.00	253.12	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	12/6/16	28.02	NM	NM	NA	0.01	NM	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	3/13/17	No EOS	25.50	NM	NA	0.00	254.62	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	6/26/17	No EOS	24.24	NM	NA	0.00	255.88	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	9/18/17	No EOS	27.02	40.00	NA	0.00	253.10	240.12	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	2/27/18	No EOS	26.39	NM	NA	0.00	253.73	NM	NA	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	9/30/21	No EOS	29.90	39.50	34.70	0.00	250.22	NM	245.42	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	3/10/23	No EOS	27.96	38.95	33.50	0.00	252.16	241.17	246.62	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	6/17/23	No EOS	27.35	40.10	34.00	0.00	252.77	240.02	246.12	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	9/23/23	No EOS	28.61	40.11	34.50	0.00	251.51	240.01	245.62	
MW-7	4.0	20.0	- 40.0	280.12	260.12	240.12	11/30/23	No EOS	29.22	40.05	34.00	0.00	250.90	240.07	246.12	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	9/26/08	NM	28.85	NM	NA	0.00	251.05	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	10/17/08	NM	29.00	NM	NA	0.00	250.90	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	9/30/09	NM	29.48	NM	NA	0.00	250.42	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	11/11/09	NM	29.80	NM	NA	0.00	250.10	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	1/21/10	NM	28.96	NM	NA	0.00	250.94	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	6/21/10	NM	27.25	NM	NA	0.00	252.65	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	11/21/11	NM	27.02	NM	NA	0.00	252.88	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	7/30/12	NM	25.94	NM	NA	0.00	253.96	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	11/2/12	NM	27.34	NM	NA	0.00	252.56	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	2/4/13	NM	25.91	NM	NA	0.00	253.99	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	6/3/13	No EOS	24.74	NM	NA	0.00	255.16	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	6/5/13	NM	24.73	NM	NA	0.00	255.17	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	5/21/14	No EOS	25.98	NM	NA	0.00	253.92	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	7/24/14	No EOS	26.30	NM	NA	0.00	253.60	NM	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	12/6/16	NM	26.92	37.52	NA	0.00	252.98	242.38	NA	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	3/13/17	NM	25.99	37.98	31.98	0.00	253.91	241.92	247.92	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	6/26/17	NM	23.47	39.55	31.51	0.00	256.43	240.35	248.39	
MW-8	2.0	20.0	- 40.0	279.90	259.90	239.90	9/18/17	NM	25.44	39.55	32.50	0.00	254.46	240.35	247.40	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	9/26/08	NM	20.60	NM	NA	0.00	258.41	NM	NA	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	10/17/08	NM	28.70	NM	NA	0.00	250.31	NM	NA	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	9/30/09	NM	29.25	NM	NA	0.00	249.76	NM	NA	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	11/11/09	NM	29.49	NM	NA	0.00	249.52	NM	NA	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	1/21/10	NM	28.50	NM	NA	0.00	250.51	NM	NA	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	6/21/10	NM	27.02	NM	NA	0.00	251.99	NM	NA	
MW-9	2.0	20.0	- 40.0	279.01	259.01	239.01	11/21/11	NM	26.88	NM	NA	0.00	252.13	NM	NA	
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	7/30/12	NM	25.83	NM	NA	0.00	253.17	NM	NA	
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	7/31/12	NM	25.82	NM	NA	0.00	253.18	NM	NA	
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	11/2/12	NM	27.18	NM	NA	0.00	251.82	NM	NA	
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	11/5/12	NM	27.15	NM	NA	0.00	251.85	NM	NA	
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	2/4/13	NM	25.65	NM	NA	0.00	253.35	NM	NA	
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	2/5/13	NM	25.65	NM	NA	0.00	253.35	NM	NA	

Appendix C.1. Historical Monitoring Well Gauging Data

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Monitoring Well Construction Information						Gauging Data								
	Well Diameter (in)	Screened Interval (ft bgs)		Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)		
				Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	6/17/23	No EOS	26.62	38.81	33.00	0.00	252.38	240.19	246.00
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	9/23/23	No EOS	27.92	38.55	33.50	0.00	251.08	240.45	245.50
MW-9	2.0	20.0	- 40.0	279.00	259.00	239.00	11/30/23	No EOS	28.35	38.55	34.00	0.00	250.65	240.45	245.00
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	9/26/08	NM	7.76	NM	NA	0.00	275.52	NM	NA
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	10/17/08	NM	7.71	NM	NA	0.00	275.57	NM	NA
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	9/30/09	NM	7.95	NM	NA	0.00	275.33	NM	NA
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	11/11/09	NM	6.81	NM	NA	0.00	276.47	NM	NA
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	1/21/10	NM	5.85	NM	NA	0.00	277.43	NM	NA
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	6/21/10	NM	6.27	NM	NA	0.00	277.01	NM	NA
MW-10	2.0	10.0	- 30.0	283.28	273.28	253.28	11/21/11	NM	6.86	NM	NA	0.00	276.42	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	7/30/12	NM	6.63	NM	NA	0.00	276.63	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	7/31/12	NM	6.55	NM	NA	0.00	276.71	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	11/2/12	NM	6.81	NM	NA	0.00	276.45	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	11/5/12	NM	6.69	NM	NA	0.00	276.57	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	2/4/13	NM	5.52	NM	NA	0.00	277.74	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	2/5/13	NM	5.52	NM	NA	0.00	277.74	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	6/3/13	No EOS	6.18	NM	NA	0.00	277.08	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	6/4/13	NM	6.26	NM	NA	0.00	277.00	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	11/12/13	No EOS	7.03	NM	NA	0.00	276.23	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	7/24/14	NM	7.09	NM	NA	0.00	276.17	NM	NA
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	12/6/16	NM	5.88	29.26	17.50	0.00	277.38	254.00	265.76
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	3/13/17	NM	5.70	29.26	19.63	0.00	277.56	254.00	263.63
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	6/26/17	NM	6.67	25.22	17.61	0.00	276.59	258.04	265.65
MW-10	2.0	10.0	- 30.0	283.26	273.26	253.26	9/18/17	NM	7.78	25.22	17.61	0.00	275.48	258.04	265.65
MW-11	2.0	20.0	- 40.0	281.44	261.44	241.44	6/21/10	NM	29.25	NM	NA	0.00	252.19	NM	NA
MW-11	2.0	20.0	- 40.0	281.44	261.44	241.44	11/21/11	NM	29.00	NM	NA	0.00	252.44	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	7/30/12	NM	28.00	NM	NA	0.00	253.45	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	8/1/12	NM	28.06	NM	NA	0.00	253.39	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	11/2/12	NM	29.40	NM	NA	0.00	252.05	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	11/6/12	NM	29.25	NM	NA	0.00	252.20	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	2/4/13	NM	28.90	NM	NA	0.00	252.55	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	2/6/13	NM	27.90	NM	NA	0.00	253.55	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	6/3/13	No EOS	26.80	NM	NA	0.00	254.65	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	6/7/13	NM	26.84	NM	NA	0.00	254.61	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	11/12/13	No EOS	29.04	NM	NA	0.00	252.41	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	5/21/14	No EOS	28.04	NM	NA	0.00	253.41	NM	NA
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	12/6/16	NM	28.97	40.05	34.50	0.00	252.48	241.40	246.95
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	3/13/17	NM	27.02	40.05	33.54	0.00	254.43	241.40	247.91
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	6/26/17	NM	25.57	40.12	32.85	0.00	255.88	241.33	248.60
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	9/18/17	NM	27.47	40.12	33.80	0.00	253.98	241.33	247.65
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	9/30/21	NM	30.32	39.98	35.15	0.00	251.13	241.47	246.30
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	3/10/23	NM	29.24	40.00	35.00	0.00	252.21	241.45	246.45
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	6/17/23	NM	28.80	40.35	34.50	0.00	252.65	241.10	246.95
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	9/23/23	NM	30.05	40.36	35.00	0.00	251.40	241.09	246.45
MW-11	2.0	20.0	- 40.0	281.45	261.45	241.45	11/30/23	NM	30.65	40.05	35.00	0.00	250.80	241.40	246.45
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	7/30/12	NM	24.10	NM	NA	0.00	253.93	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	11/2/12	NM	25.56	NM	NA	0.00	252.47	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	11/6/12	NM	25.61	NM	NA	0.00	252.42	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	2/4/13	NM	23.80	NM	NA	0.00	254.23	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	2/6/13	NM	23.80	NM	NA	0.00	254.23	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	6/3/13	No EOS	22.90	NM	NA	0.00	255.13	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	6/4/13	NM	22.86	NM	NA	0.00	255.17	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	11/12/13	No EOS	25.20	NM	NA	0.00	252.83	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	5/21/14	No EOS	24.03	NM	NA	0.00	254.00	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	7/24/14	No EOS	24.48	NM	NA	0.00	253.55	NM	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	12/6/16	NM	25.04	32.58	NA	0.00	252.99	245.45	NA
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	3/13/17	NM	23.05	32.37	27.71	0.00	254.98	245.66	250.32
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	6/26/17	NM	21.76	32.57	27.17	0.00	256.27	245.46	250.86
MW-12	2.0	18.0	- 33.0	278.03	260.03	245.03	9/18/17	NM	23.75	32.57	28.16	0.00	254.28	245.46	249.87
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	7/30/12	NM	22.81	NM	NA	0.00	253.70	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	11/2/12	NM	24.23	NM	NA	0.00	252.28	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	11/6/12	NM	24.19	NM	NA	0.00	252.32	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	2/4/13	NM	22.74	NM	NA	0.00	253.77	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	2/6/13	NM	22.74	NM	NA	0.00	253.77	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	6/3/13	No EOS	21.65	NM	NA	0.00	254.86	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	6/6/13	No EOS	21.62	NM	NA	0.00	254.89	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	11/12/13	No EOS	23.89	NM	NA	0.00	252.62	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	5/21/14	No EOS	22.98	NM	NA	0.00	253.53	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	7/24/14	No EOS	23.19	NM	NA	0.00	253.32	NM	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	12/6/16	NM	23.75	34.75	NA	0.00	252.76	241.76	NA
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	3/13/17	NM	21.71	34.75	28.23	0.00	254.80	241.76	248.28
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	6/26/17	NM	20.43	34.71	27.57	0.00	256.08	241.80	248.94
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	9/18/17	NM	22.42	34.71	28.57	0.00	254.09	241.80	247.94
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	9/30/21	No EOS	25.29	34.59	29.95	0.00	251.22	241.92	246.56
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	3/10/23	No EOS	24.27	34.60	29.50	0.00	252.24	241.91	247.01
MW-13	2.0	20.0	- 35.0	276.51	256.51	241.51	6/17/23	No EOS	23.67	34.84	29.00	0.00	252.84	241.67	247.51

Appendix C.1. Historical Monitoring Well Gauging Data

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Monitoring Well Construction Information							Gauging Data								
Location	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Depth to EOS	Measurements (feet below top of casing)			Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)			
			Top of Casing	Top of Screen	Bottom of Screen			Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake	
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	6/3/13	No EOS	29.97	NM	NA	0.00	254.94	NM	NA
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	6/5/13	NM	29.95	NM	NA	0.00	254.96	NM	NA
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	11/12/13	No EOS	32.21	NM	NA	0.00	252.70	NM	NA
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	5/21/14	No EOS	31.26	NM	NA	0.00	253.65	NM	NA
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	7/24/14	No EOS	31.50	NM	NA	0.00	253.41	NM	NA
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	12/6/16	NM	32.02	39.60	NA	0.00	252.89	245.31	NA
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	3/13/17	NM	30.15	38.85	34.50	0.00	254.76	246.06	250.41
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	6/26/17	NM	28.62	39.60	34.11	0.00	256.29	245.31	250.80
MW-14	2.0	25.0	- 40.0	284.91	259.91	244.91	9/18/17	NM	30.55	39.60	35.08	0.00	254.36	245.31	249.83
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	7/30/12	NM	28.85	NM	NA	0.00	253.07	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	8/1/12	NM	28.89	NM	NA	0.00	253.03	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	11/2/12	NM	30.18	NM	NA	0.00	251.74	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	11/7/12	NM	30.22	NM	NA	0.00	251.70	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	2/4/13	NM	28.60	NM	NA	0.00	253.32	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	2/6/13	NM	28.60	NM	NA	0.00	253.32	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	6/3/13	No EOS	27.69	NM	NA	0.00	254.23	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	6/7/13	NM	27.75	NM	NA	0.00	254.17	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	11/12/13	No EOS	29.36	NM	NA	0.00	252.56	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	5/21/14	No EOS	28.83	NM	NA	0.00	253.09	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	7/24/14	No EOS	29.01	NM	NA	0.00	252.91	NM	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	12/6/16	NM	29.63	38.28	NA	0.00	252.29	243.64	NA
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	3/13/17	NM	27.72	38.23	32.98	0.00	254.20	243.69	248.94
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	6/26/17	NM	26.51	38.12	32.32	0.00	255.41	243.80	249.60
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	9/18/17	NM	28.35	38.12	33.24	0.00	253.57	243.80	248.68
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	9/30/21	NM	31.16	37.78	34.47	0.00	250.76	244.14	247.45
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	3/10/23	NM	28.97	38.22	34.50	0.00	252.95	243.70	247.42
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	6/17/23	NM	29.58	38.45	34.00	0.00	252.34	243.47	247.92
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	9/23/23	NM	30.90	38.50	35.00	0.00	251.02	243.42	246.92
MW-15	2.0	23.0	- 38.0	281.92	258.92	243.92	11/30/23	NM	31.35	38.50	35.00	0.00	250.57	243.42	246.92
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	11/12/13	No EOS	30.21	NM	NA	0.00	252.05	NM	NA
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	5/21/14	No EOS	29.11	NM	NA	0.00	253.15	NM	NA
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	7/24/14	No EOS	29.50	NM	NA	0.00	252.76	NM	NA
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	12/6/16	NM	29.92	59.46	NA	0.00	252.34	222.80	NA
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	3/13/17	NM	28.05	60.15	57.58	0.00	254.21	222.11	224.68
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	6/26/17	NM	26.80	59.46	57.23	0.00	255.46	222.80	225.03
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	9/18/17	NM	28.61	59.46	54.73	0.00	253.65	222.80	227.53
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	9/30/21	No EOS	31.17	59.76	52.50	0.00	251.09	222.50	229.76
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	3/10/23	No EOS	30.20	59.61	53.50	0.00	252.06	222.65	228.76
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	6/17/23	No EOS	29.86	60.10	55.00	0.00	252.40	222.16	227.26
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	9/23/23	No EOS	31.20	60.10	52.50	0.00	251.06	222.16	229.76
MW-15D	2.0	55.0	- 60.0	282.26	227.26	222.26	11/30/23	No EOS	31.61	60.10	52.00	0.00	250.65	222.16	230.26
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	7/30/12	NM	30.80	NM	NA	0.00	253.20	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	7/31/12	NM	30.79	NM	NA	0.00	253.21	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	11/2/12	NM	32.19	NM	NA	0.00	251.81	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	11/5/12	NM	32.30	NM	NA	0.00	251.70	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	2/4/13	NM	30.62	NM	NA	0.00	253.38	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	2/5/13	NM	30.62	NM	NA	0.00	253.38	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	6/3/13	No EOS	29.64	NM	NA	0.00	254.36	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	6/6/13	NM	29.61	NM	NA	0.00	254.39	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	11/12/13	No EOS	31.80	NM	NA	0.00	252.20	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	5/21/14	No EOS	30.82	NM	NA	0.00	253.18	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	7/24/14	No EOS	31.10	NM	NA	0.00	252.90	NM	NA
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	12/6/16	NM	31.60	39.76	35.50	0.00	252.40	244.24	248.50
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	3/13/17	NM	29.75	39.16	34.21	0.00	254.25	244.84	249.79
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	6/26/17	NM	28.26	39.74	34.01	0.00	255.74	244.26	249.99
MW-16	2.0	25.0	- 40.0	284.00	259.00	244.00	9/18/17	NM	30.15	39.74	34.95	0.00	253.85	244.26	249.05
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	7/30/12	NM	31.27	NM	NA	0.00	253.46	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	7/31/12	NM	31.29	NM	NA	0.00	253.44	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	11/2/12	NM	32.68	NM	NA	0.00	252.05	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	11/5/12	NM	32.68	NM	NA	0.00	252.05	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	2/4/13	NM	31.28	NM	NA	0.00	253.45	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	2/5/13	NM	31.28	NM	NA	0.00	253.45	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	6/3/13	No EOS	30.11	NM	NA	0.00	254.62	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	6/4/13	NM	30.11	NM	NA	0.00	254.62	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	11/12/13	No EOS	32.11	NM	NA	0.00	252.62	NM	NA
MW-17	2.0	25.0	- 40.0	284.73	259.73	244.73	5/21/14	No EOS	31.36	NM	NA	0.00	253.37	NM	NA
MW-17	2.0														

Appendix C.1. Historical Monitoring Well Gauging Data

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Monitoring Well Construction Information						Gauging Data								
	Well Diameter (in)	Screened Interval (ft bgs)	Elevations (feet above mean sea level)			Date	Measurements (feet below top of casing)				Approximate EOS Thickness (feet)	Elevations (feet above mean sea level)			
			Top of Casing	Top of Screen	Bottom of Screen		Depth to EOS	Depth to Water	Depth to Bottom	Depth to Pump Intake		Groundwater	Bottom of Well	Pump Intake	
MW-18	2.0	26.0 - 36.0	274.07	248.07	238.07	3/13/17	NM	20.84	28.80	27.40	0.00	253.23	245.27	246.67	
MW-18	2.0	26.0 - 36.0	274.07	248.07	238.07	6/26/17	NM	18.91	28.98	27.49	0.00	255.16	245.09	246.58	
MW-18	2.0	26.0 - 36.0	274.07	248.07	238.07	9/18/17	NM	20.80	28.98	27.49	0.00	253.27	245.09	246.58	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	11/12/13	No EOS	22.54	NM	NA	0.00	251.87	NM	NA	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	5/21/14	No EOS	21.36	NM	NA	0.00	253.05	NM	NA	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	7/24/14	No EOS	21.89	NM	NA	0.00	252.52	NM	NA	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	12/6/16	NM	22.14	57.47	NA	0.00	252.27	216.94	NA	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	3/13/17	NM	20.29	57.47	56.24	0.00	254.12	216.94	218.17	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	6/26/17	NM	19.32	58.51	56.76	0.00	255.09	215.90	217.65	
MW-18D	2.0	55.0 - 60.0	274.41	219.41	214.41	9/18/17	NM	21.14	58.51	56.76	0.00	253.27	215.90	217.65	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	11/12/13	No EOS	23.43	NM	NA	0.00	256.33	NM	NA	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	5/21/14	No EOS	18.90	NM	NA	0.00	260.86	NM	NA	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	7/24/14	No EOS	19.95	NM	NA	0.00	259.81	NM	NA	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	12/6/16	NM	20.07	33.33	29.00	0.00	259.69	246.43	250.76	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	3/13/17	NM	16.54	33.33	29.17	0.00	263.22	246.43	250.59	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	6/26/17	NM	17.13	33.29	29.15	0.00	262.63	246.47	250.61	
MW-19	2.0	25.0 - 35.0	279.76	254.76	244.76	9/18/17	NM	20.63	33.29	29.15	0.00	259.13	246.47	250.61	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	11/12/13	No EOS	28.11	NM	NA	0.00	251.73	NM	NA	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	5/21/14	No EOS	26.90	NM	NA	0.00	252.94	NM	NA	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	7/24/14	No EOS	27.49	NM	NA	0.00	252.35	NM	NA	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	12/6/16	NM	27.72	57.01	NA	0.00	252.12	222.83	NA	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	3/13/17	NM	25.85	57.01	56.01	0.00	253.99	222.83	223.83	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	6/26/17	NM	24.86	57.92	54.50	0.00	254.98	221.92	225.34	
MW-19D	2.0	55.0 - 60.0	279.84	224.84	219.84	9/18/17	NM	26.72	57.92	56.46	0.00	253.12	221.92	223.38	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	11/12/13	No EOS	30.90	NM	NA	0.00	251.71	NM	NA	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	5/21/14	No EOS	26.69	NM	NA	0.00	255.92	NM	NA	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	7/24/14	No EOS	30.23	NM	NA	0.00	252.38	NM	NA	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	12/6/16	NM	30.47	58.75	NA	0.00	252.14	223.86	NA	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	3/13/17	NM	28.63	58.75	56.88	0.00	253.98	223.86	225.73	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	6/26/17	NM	27.59	59.51	57.26	0.00	255.02	223.10	225.35	
MW-20D	2.0	55.0 - 60.0	282.61	227.61	222.61	9/18/17	NM	29.42	59.51	57.26	0.00	253.19	223.10	225.35	
MW-21D	2.0	61.0 - 66.0	287.39	226.39	221.39	5/21/14	No EOS	34.90	NM	NA	0.00	252.49	NM	NA	
MW-21D	2.0	61.0 - 66.0	287.39	226.39	221.39	7/24/14	No EOS	35.20	NM	NA	0.00	252.19	NM	NA	
MW-21D	2.0	61.0 - 66.0	287.39	226.39	221.39	12/7/16	NM	35.68	64.47	NA	0.00	251.71	222.92	NA	
MW-21D	2.0	61.0 - 66.0	287.39	226.39	221.39	3/13/17	NM	34.20	64.47	62.74	0.00	253.19	222.92	224.65	
MW-21D	2.0	61.0 - 66.0	287.39	226.39	221.39	6/26/17	NM	32.13	65.31	63.15	0.00	255.26	222.08	224.24	
MW-21D	2.0	61.0 - 66.0	287.39	226.39	221.39	9/18/17	NM	33.92	65.31	63.16	0.00	253.47	222.08	224.23	
MW-22D	2.0	50.0 - 60.0	284.83	234.83	224.83	5/21/14	No EOS	32.44	NM	NA	0.00	252.39	NM	NA	
MW-22D	2.0	50.0 - 60.0	284.83	234.83	224.83	7/24/14	No EOS	32.75	NM	NA	0.00	252.08	NM	NA	
MW-22D	2.0	50.0 - 60.0	284.83	234.83	224.83	12/6/16	NM	33.01	59.32	NA	0.00	251.82	225.51	NA	
MW-22D	2.0	50.0 - 60.0	284.83	234.83	224.83	3/13/17	NM	31.26	59.32	54.66	0.00	253.57	225.51	230.17	
MW-22D	2.0	50.0 - 60.0	284.83	234.83	224.83	6/26/17	NM	29.74	59.85	54.93	0.00	255.09	224.98	229.90	
MW-22D	2.0	50.0 - 60.0	284.83	234.83	224.83	9/18/17	NM	31.59	59.85	54.93	0.00	253.24	224.98	229.90	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	7/24/14	No EOS	28.18	NM	NA	0.00	252.91	NM	NA	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	12/6/16	NM	28.68	34.72	31.50	0.00	252.41	246.37	249.59	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	3/13/17	NM	26.80	34.72	30.76	0.00	254.29	246.37	250.33	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	6/26/17	NM	25.54	33.69	29.62	0.00	255.55	247.40	251.47	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	9/18/17	NM	27.40	33.69	30.55	0.00	253.69	247.40	250.54	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	9/30/21	No EOS	30.21	33.71	31.95	0.00	250.88	247.38	249.14	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	3/10/23	No EOS	29.00	33.69	29.00	0.00	252.09	247.40	252.09	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	6/17/23	No EOS	28.65	33.90	31.50	0.00	252.44	247.19	249.59	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	9/23/23	No EOS	29.95	34.00	32.00	0.00	251.14	247.09	249.09	
MW-23	2.0	25.0 - 35.0	281.09	256.09	246.09	11/30/23	No EOS	30.41	33.90	NA	0.00	250.68	247.19	NA	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	7/24/14	No EOS	26.42	NM	NA	0.00	253.15	NM	NA	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	12/7/16	NM	27.09	29.29	NA	0.00	252.48	250.28	NA	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	3/13/17	NM	25.11	29.15	27.13	0.00	254.46	250.42	252.44	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	6/26/17	NM	23.72	29.31	26.52	0.00	255.85	250.26	253.05	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	9/18/17	NM	25.63	29.31	27.47	0.00	253.94	250.26	252.10	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	9/30/21	NM	28.46	29.23	28.85	0.00	251.11	250.34	250.72	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	3/10/23	NM	27.38	29.29	28.00	0.00	252.19	250.28	251.57	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	6/17/23	NM	26.87	29.41	28.50	0.00	252.70	250.16	251.07	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	9/23/23	NM	28.20	29.41	NA	0.00	251.37	250.16	NA	
MW-101	2.0	20.0 - 30.0	279.57	259.57	249.57	11/30/23	NM	28.72	29.40	NA	0.00	250.85	250.17	NA	

Notes:

1. NM = Not Measured

2. Prior to 2017, EOS thicknesses were based solely on oil-water interface probe measurements, which have proven inaccurate for determining the precise depth of the EOS/water interface. Beginning in 2017, a bailer was used to retrieve an EOS sample for measurement of the EOS thickness.



Appendix C.2

Historical Summary of Groundwater Analytical Results

APP C.2. Historical Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.5	--	--	0.029
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24
MW-1	1/25/08	NA	NA	USEPA Method 8260	2,300	42	32	<10	<10
MW-1	10/1/09	NA	NA	USEPA Method 8260	6,200	120	240	<1.0	<61
MW-1	11/29/11	Low-Flow	NA	USEPA Method 8260	40.3	2.5	6.2	6.4	<1.0
MW-1	8/2/12	Low-Flow	NA	USEPA Method 8260	91.2	5.1	15.2	NA	<1.0
MW-1	11/7/12	Low-Flow	NA	USEPA Method 8260	83.7	4.2	15.4	NA	<0.40
MW-1	2/7/13	Low-Flow	NA	USEPA Method 8260	136	6.8	19.8	NA	<0.40
MW-1	6/10/13	Low-Flow	NA	USEPA Method 8260	132	6.7	23.7	<1.0	<0.40
MW-1	11/15/13	Low-Flow	NA	USEPA Method 8260	81.3	3.7	19.7	<1.0	0.44
MW-1	5/21/14	Low-Flow	NA	USEPA Method 8260	108	9.9	30	0.40	0.37
MW-1	12/8/16	Low-Flow	NA	USEPA Method 8260	472	51.5	312	<1.0	4.2
MW-1 DUP	12/8/16	Low-Flow	NA	USEPA Method 8260	419	48.2	293	<2.5	3.5
MW-1	3/17/17	Low-Flow	247.96	USEPA Method 8260	670	73.7	365	<0.50	3.2
MW-1 DUP	3/17/17	Low-Flow	247.96	USEPA Method 8260	681	73.1	404	<0.50	3.2
MW-1	6/29/17	Low-Flow	248.15	USEPA Method 8260	928	52.7	344	<5.0	3.1
MW-1 DUP	6/29/17	Low-Flow	248.15	USEPA Method 8260	928	56.0	337	<5.0	3.5
MW-1	9/22/17	Low-Flow	247.19	USEPA Method 8260	730	58.3	484	<5.0	3.3
MW-1 DUP	9/22/17	Low-Flow	247.19	USEPA Method 8260	784	60.3	499	<2.5	3.5
MW-1	10/2/21	Low-Flow	245.80	USEPA Method 8260	512	73.4	1,960	<10.0	6.5
MW-1	3/14/23	Low-Flow	246.37	EPA 8260D	474	42.2	1,920	<10.0	<10.0
MW-1 DUP	3/14/23	Low-Flow	246.37	EPA 8260D	450	46.0	1,960	2.1	9.8
MW-1	6/19/23	Low-Flow	246.87	EPA 8260D	340	26.3	1,150	<10.0	<10.0
MW-1 DUP	6/19/23	Low-Flow	246.87	EPA 8260D	329	26.1	1,210	<10.0	<10.0
MW-1	9/25/23	Low-Flow	245.37	EPA 8260D	339	18.8	596	<10.0	<10.0
MW-1 DUP	9/25/23	Low-Flow	245.37	EPA 8260D	333	18.3	602	<10.0	<10.0
MW-1	12/2/23	Low-Flow	245.87	EPA 8260D	267	15.3	542	<10.0	<10.0
MW-1 DUP	12/2/23	Low-Flow	245.87	EPA 8260D	275	13.4	567	<10.0	<10.0
MW-1D	5/1/08	NA	NA	USEPA Method 8260	61	1.1	3.1	<0.40	<0.40
MW-1D	10/1/09	NA	NA	USEPA Method 8260	9.4	0.2	<0.2	<1.0	<0.2
MW-1D	11/11/09	NA	NA	USEPA Method 8260	4.6	<0.2	<0.2	<1.0	<0.2
MW-1D	11/29/11	Low-Flow	NA	USEPA Method 8260	5.4	<1.0	<1.0	<1.0	<1.0
MW-1D	8/2/12	Low-Flow	NA	USEPA Method 8260	13.0	<1.0	<1.0	<1.0	<1.0
MW-1D	11/7/12	Low-Flow	NA	USEPA Method 8260	6.6	<1.0	<1.0	NA	<0.40
MW-1D	2/7/13	Low-Flow	NA	USEPA Method 8260	3.2	<1.0	<1.0	NA	<0.40
MW-1D	6/5/13	Low-Flow	NA	USEPA Method 8260	2.0	<1.0	<1.0	NA	<0.40
MW-1D	11/14/13	Low-Flow	NA	USEPA Method 8260	1.7	<0.40	<1.0	<1.0	<0.40
MW-1D	5/17/14	Low-Flow	NA	USEPA Method 8260	1.3	0.029	<0.10	<0.10	<0.020
MW-1D	12/8/16	Low-Flow	NA	USEPA Method 8260	3.9	<0.40	<0.50	<0.50	<0.20
MW-1D	3/16/17	Low-Flow	231.33	USEPA Method 8260	3.4	<0.40	<0.50	<0.50	<0.20
MW-1D	6/28/17	Low-Flow	230.33	USEPA Method 8260	1.3	<0.40	<0.50	<0.50	<0.20
MW-1D	9/20/17	Low-Flow	228.87	USEPA Method 8260	2.1	<0.40	<0.50	<0.50	<0.20
MW-2	1/25/08	NA	NA	USEPA Method 8260	1,100	30	<10	<10	<10
MW-2	10/1/09	NA	NA	USEPA Method 8260	1,200	33	9.6	<10	<4.0
MW-2	11/29/11	Low-Flow	NA	USEPA Method 8260	20.1	<1.0	<1.0	<1.0	<1.0
MW-2	8/1/12	Low-Flow	NA	USEPA Method 8260	16.8	1.1	<1.0	<1.0	<1.0
MW-2	11/6/12	Low-Flow	NA	USEPA Method 8260	13.0	<1.0	<1.0	NA	<0.40
MW-2	2/6/13	Low-Flow	NA	USEPA Method 8260	23.1	<1.0	<1.0	NA	<0.40
MW-2	6/10/13	Low-Flow	NA	USEPA Method 8260	18.4	0.75	<1.0	NA	<0.40
MW-2R	10/2/21	Low-Flow	NA	USEPA Method 8260	243	15.0	2.9	<1.0	<0.20
MW-2R (FD1)	10/2/21	Low-Flow	NA	USEPA Method 8260	313	13.5	2.9	<1.0	<0.20
MW-2R	3/13/23	Low-Flow	246.45	EPA 8260D	237	11.8	7.3	<1.0	<1.0
MW-2R	6/18/23	Low-Flow	246.95	EPA 8260D	177	8.5	6.3	<1.0	<1.0
MW-2R	9/24/23	Low-Flow	245.95	EPA 8260D	144	5.6	3.9	<1.0	<1.0
MW-2R	12/2/23	Low-Flow	244.95	EPA 8260D	140	7.1	4.1	<2.0	<2.0
MW-3	1/25/08	NA	NA	USEPA Method 8260	1,100	24	<10	<10	<10
MW-3	10/1/09	NA	NA	USEPA Method 8260	460	8.4	<3.0	<3.0	<3.0
MW-3	11/29/11	Low-Flow	NA	USEPA Method 8260	21.6	1.0	<1.0	<1.0	<1.0
MW-3	8/1/12	Low-Flow	NA	USEPA Method 8260	16.6	<1.0	<1.0	<1.0	<1.0
MW-3	11/6/12	Low-Flow	NA	USEPA Method 8260	21.8	<1.0	<1.0	NA	<0.40
MW-3	2/7/13	Low-Flow	NA	USEPA Method 8260	22.3	<1.0	<1.0	NA	<0.40
MW-3	6/10/13	Low-Flow	NA	USEPA Method 8260	17.4	0.65	<1.0	NA	<0.40
MW-3 abandoned and replaced with MW-3R									
MW-3R	10/2/21	Low-Flow	NA	USEPA Method 8260	191	2.5	<1.0	<1.0	<0.20
MW-3R	10/5/21	Bailer	NA	USEPA Method 8260	169	2.0	<1.0	<1.0	<0.20
MW-3R	3/13/23	Low-Flow	251.59	EPA 8260D	195	2.6	<1.0	<1.0	<1.0
MW-3R	6/18/23	Low-Flow	251.09	EPA 8260D	203	2.7	<1.0	<1.0	<1.0
MW-3R	9/24/23	Low-Flow	NA	EPA 8260D	159	2.3	<1.0	<1.0	<1.0
MW-3R	12/2/23	Low-Flow	NA	EPA 8260D	116	1.5	<1.0	<1.0	<1.0
MW-4	5/1/08	NA	NA	USEPA Method 8260	3.9	<0.20	<0.20	<0.20	<0.20
MW-4	9/30/09	NA	NA	USEPA Method 8260	3.1	<0.2	<0.2	<0.2	<0.2
MW-4	11/22/11	Low-Flow	NA	USEPA Method 8260	5.1	<1.0	<1.0	<1.0	<1.0
MW-4	7/31/12	Low-Flow	NA	USEPA Method 8260	6.1	<1.0	<1.0	<1.0	<1.0
MW-4	11/5/12	Low-Flow	NA	USEPA Method 8260	6.1	<1.0	<1.0	NA	<0.40
MW-4	2/5/13	Low-Flow	NA	USEPA Method 8260	5.1	<1.0	<1.0	NA	<0.40
MW-4	6/5/13	Low-Flow	NA	USEPA Method 8260	6.1	<1.0	<1.0	NA	<0.40

APP C.2. Historical Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.5	--	--	0.029
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24
MW-4	5/17/14	Low-Flow	NA	USEPA Method 8260	3.7	<0.10	<0.10	<0.10	<0.020
MW-4	12/8/16	Low-Flow	NA	USEPA Method 8260	4.2	<0.40	<0.50	<0.50	<0.20
MW-4	3/14/17	Low-Flow	245.39	USEPA Method 8260	5.6	<0.40	<0.50	<0.50	<0.20
MW-4	6/28/17	Low-Flow	245.34	USEPA Method 8260	4.6	<0.40	<0.50	<0.50	<0.20
MW-4	9/20/17	Low-Flow	245.34	USEPA Method 8260	3.8	<0.40	<0.50	<0.50	<0.20
MW-4	10/1/21	Low-Flow	245.30	USEPA Method 8260	2.8	<0.40	<1.0	<1.0	<0.20
MW-4	3/11/23	Low-Flow	245.43	EPA 8260D	5.0	<1.0	<1.0	<1.0	<1.0
MW-4	6/17/23	Low-Flow	244.93	EPA 8260D	4.7	<1.0	<1.0	<1.0	<1.0
MW-4	9/23/23	Low-Flow	246.43	EPA 8260D	4.2	<1.0	<1.0	<1.0	<1.0
MW-4	12/1/23	Low-Flow	245.93	EPA 8260D	4.2	<1.0	<1.0	<1.0	<1.0
MW-5	5/1/08	NA	NA	USEPA Method 8260	53	0.79	<0.20	<0.20	<0.20
MW-5	9/30/09	NA	NA	USEPA Method 8260	17	0.4	<0.2	<0.2	<0.2
MW-5	11/22/11	Low-Flow	NA	USEPA Method 8260	128	2.2	<1.0	<1.0	<1.0
MW-5	8/1/12	Low-Flow	NA	USEPA Method 8260	55.6	<1.0	<1.0	<1.0	<1.0
MW-5	11/5/12	Low-Flow	NA	USEPA Method 8260	73.2	1.1	<1.0	NA	<0.40
MW-5	2/4/13	Low-Flow	NA	USEPA Method 8260	27.5	<1.0	<1.0	NA	<0.40
MW-5	6/6/13	Low-Flow	NA	USEPA Method 8260	21.7	<0.40	<1.0	NA	<0.40
MW-5	5/18/14	Low-Flow	NA	USEPA Method 8260	40	0.93	<0.10	<0.10	<0.020
MW-5	12/8/16	Low-Flow	NA	USEPA Method 8260	64.3	1.3	<0.50	<0.50	<0.20
MW-5	3/16/17	Low-Flow	241.11	USEPA Method 8260	21.1	0.48	<0.50	<0.50	<0.20
MW-5	6/29/17	Low-Flow	244.04	USEPA Method 8260	30.9	0.81	<0.50	<0.50	<0.20
MW-5	9/21/17	Low-Flow	244.04	USEPA Method 8260	126	2.6	<0.50	<0.50	<0.20
MW-5	10/1/21	Low-Flow	243.96	USEPA Method 8260	24.0	0.59	<1.0	<1.0	<0.20
MW-5	3/12/23	Low-Flow	244.00	EPA 8260D	41.4	<1.0	<1.0	<1.0	<1.0
MW-5	6/18/23	Low-Flow	244.00	EPA 8260D	47.2	<1.0	<1.0	<1.0	<1.0
MW-5	9/24/23	Low-Flow	244.00	EPA 8260D	70.5	1.1	<1.0	<1.0	<1.0
MW-5	12/1/23	Low-Flow	245.00	EPA 8260D	62.0	1.1	<1.0	<1.0	<1.0
MW-6	5/1/08	NA	NA	USEPA Method 8260	140	1.2	<1.0	<1.0	<1.0
MW-6	10/1/09	NA	NA	USEPA Method 8260	65	0.6	<0.4	<0.4	<0.4
MW-6	11/29/11	Low-Flow	NA	USEPA Method 8260	48.5	<1.0	<1.0	<1.0	<1.0
MW-6	8/1/12	Low-Flow	NA	USEPA Method 8260	37.9	<1.0	<1.0	<1.0	<1.0
MW-6	11/6/12	Low-Flow	NA	USEPA Method 8260	30.7	<1.0	<1.0	NA	<0.40
MW-6	2/6/13	Low-Flow	NA	USEPA Method 8260	47.5	<1.0	<1.0	NA	<0.40
MW-6	6/7/13	Low-Flow	NA	USEPA Method 8260	37.1	<0.40	<1.0	NA	<1.0
MW-6	5/18/14	Low-Flow	NA	USEPA Method 8260	96	1.0	<0.10	<0.10	<0.020
MW-6	12/7/16	Low-Flow	245.41	USEPA Method 8260	39.3	<0.40	<0.50	<0.50	<0.20
MW-6	3/16/17	Low-Flow	245.31	USEPA Method 8260	44.2	<0.40	<0.50	<0.50	<0.20
MW-6	6/29/17	Low-Flow	245.24	USEPA Method 8260	7.5	<0.40	<0.50	<0.50	<0.20
MW-6	9/21/17	Low-Flow	247.32	USEPA Method 8260	46.8	<0.40	<0.50	<0.50	<0.20
MW-6	10/1/21	Low-Flow	255.47	USEPA Method 8260	49.0	<0.40	<1.0	<1.0	<0.20
MW-6	3/12/23	Low-Flow	246.41	EPA 8260D	97.0	<1.0	<1.0	<1.0	<1.0
MW-6	6/18/23	Low-Flow	246.41	EPA 8260D	82.8	<1.0	<1.0	<1.0	<1.0
MW-6	9/24/23	Low-Flow	244.91	EPA 8260D	73.0	<1.0	<1.0	<1.0	<1.0
MW-6	12/2/23	Low-Flow	245.41	EPA 8260D	98.5	<1.0	<1.0	<1.0	<1.0
MW-7	9/26/08	NA	NA	USEPA Method 8260	1,500	33	76	<10	<10
MW-7	10/1/09	NA	NA	USEPA Method 8260	2,000	35	100	<20	<20
MW-7	11/29/11	Low-Flow	NA	USEPA Method 8260	136	8.6	48.6	<1.0	<1.0
MW-7	8/2/12	Low-Flow	NA	USEPA Method 8260	190	8.0	36.6	<1.0	<1.0
MW-7	11/7/12	Low-Flow	NA	USEPA Method 8260	115	5.7	28.5	NA	<0.40
MW-7	2/7/13	Low-Flow	NA	USEPA Method 8260	133	6.5	37.5	NA	<0.40
MW-7	6/10/13	Low-Flow	NA	USEPA Method 8260	61.2	3.2	32.6	NA	0.46
MW-7	5/21/14	Low-Flow	NA	USEPA Method 8260	66	5.7	33	0.23	0.38
MW-7	9/21/17	Bailer	NA	USEPA Method 8260	819	13.0	220	<0.50	1.6
MW-7	10/3/21	Low-Flow	245.42	USEPA Method 8260	296	14.8	337	<1.0	1.8
MW-7	3/13/23	Low-Flow	246.62	EPA 8260D	15.0	126	462	<5.0	<5.0
MW-7	6/19/23	Low-Flow	246.12	EPA 8260D	3.3	5.4	286	<1.0	2.5
MW-7	9/25/23	Low-Flow	245.62	EPA 8260D	2.5	<1.0	215	<1.0	2.1
MW-7	12/2/23	Low-Flow	246.12	EPA 8260D	2.3	<2.0	195	<2.0	<2.0
MW-8	9/26/08	NA	NA	USEPA Method 8260	0.31	<0.2	<0.2	<0.2	<0.2
MW-8	9/30/09	NA	NA	USEPA Method 8260	<0.2	<0.2	<0.2	<0.2	<0.2
MW-8	11/21/11	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-8	7/30/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-8	11/2/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-8	2/4/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-8	6/5/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-8	5/15/14	Low-Flow	NA	USEPA Method 8260	0.079	<0.10	<0.10	<0.10	<0.020
MW-8	12/8/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-8	3/14/17	Low-Flow	247.92	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-8	6/28/17	Low-Flow	248.39	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-8	9/20/17	Low-Flow	247.40	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-9	9/26/08	NA	NA	USEPA Method 8260	18	0.58	<0.20	<0.2	<0.20
MW-9	10/1/09	NA	NA	USEPA Method 8260	62	1.7	<1.0	<0.2	<1.0
MW-9	11/22/11	Low-Flow	NA	USEPA Method 8260	2.1	<1.0	<1.0	<1.0	<1.0

APP C.2. Historical Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.5	--	--	0.029
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24
MW-9	7/31/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	11/5/12	Low-Flow	NA	USEPA Method 8260	3.5	<1.0	<1.0	NA	<0.40
MW-9	2/5/13	Low-Flow	NA	USEPA Method 8260	9.6	<1.0	<1.0	NA	<0.40
MW-9	6/5/13	Low-Flow	NA	USEPA Method 8260	43.6	1.3	<1.0	NA	<0.40
MW-9	5/18/14	Low-Flow	NA	USEPA Method 8260	1.6	0.072	<0.10	<0.10	<0.020
MW-9	12/6/16	Low-Flow	NA	USEPA Method 8260	6.1	<0.40	<0.50	<0.50	<0.20
MW-9	3/14/17	Low-Flow	247.28	USEPA Method 8260	69.2	2.0	1.2	<0.50	<0.20
MW-9	6/28/17	Low-Flow	247.94	USEPA Method 8260	6.0	<0.40	<0.50	<0.50	<0.20
MW-9	9/20/17	Low-Flow	247.01	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-9	10/1/21	Low-Flow	245.65	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.20
MW-9	3/10/23	Low-Flow	246.00	EPA 8260D	1.5	<1.0	<1.0	<1.0	<1.0
MW-9	6/17/23	Low-Flow	246.00	EPA 8260D	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	9/23/23	Low-Flow	245.50	EPA 8260D	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	12/1/23	Low-Flow	245.00	EPA 8260D	1.2	<1.0	<1.0	<1.0	<1.0
MW-10	9/26/08	NA	NA	USEPA Method 8260	0.69	<0.2	<0.2	<0.2	<0.2
MW-10	9/30/09	NA	NA	USEPA Method 8260	<0.2	<0.2	<0.2	<0.2	<0.2
MW-10	11/22/11	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	7/31/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	11/5/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-10	2/5/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-10	6/4/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-10	12/6/16	Low-Flow	265.76	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-10	3/15/17	Low-Flow	263.63	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-10	6/27/17	Low-Flow	265.65	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-10	9/19/17	Low-Flow	265.65	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-11	6/21/10	Low-Flow	NA	USEPA Method 8260	2300	36	2.6	<10	<2.0
MW-11	11/29/11	Low-Flow	NA	USEPA Method 8260	2350	31.1	2.6	2.7	<1.0
MW-11	8/1/12	Low-Flow	NA	USEPA Method 8260	1700	49.5	3.4	<1.0	<1.0
MW-11	11/6/12	Low-Flow	NA	USEPA Method 8260	1520	55.5	1.5	NA	<4.0
MW-11	2/6/13	Low-Flow	NA	USEPA Method 8260	319	<	<5.0	NA	<2.0
MW-11	6/7/13	Low-Flow	NA	USEPA Method 8260	1800	53.8	<10.0	NA	<10.0
MW-11	11/15/13	Low-Flow	NA	USEPA Method 8260	910	47.9	<5.0	<5.0	<2.0
MW-11	5/19/14	Low-Flow	NA	USEPA Method 8260	510	34	12	0.12	<0.020
MW-11	12/6/16	Low-Flow	246.95	USEPA Method 8260	575	46.5	86.1	<0.50	<0.20
MW-11 DUP	12/6/16	Low-Flow	246.95	USEPA Method 8260	542	41.1	76.3	<2.5	<1.0
MW-11	3/14/17	Low-Flow	247.91	USEPA Method 8260	246	21.8	40.7	<0.50	<0.20
MW-11	6/29/17	Low-Flow	248.60	USEPA Method 8260	416	38.3	79.8	<2.5	<1.0
MW-11	9/22/17	Low-Flow	247.65	USEPA Method 8260	404	35.4	90.5	<1.0	<0.40
MW-11	10/2/21	Low-Flow	246.30	USEPA Method 8260	354	26.8	33.5	<2.0	<0.40
MW-11	3/14/23	Low-Flow	246.45	EPA 8260D	481	20.3	34.2	<5.0	<5.0
MW-11	6/19/23	Low-Flow	246.95	EPA 8260D	235	11.6	28.1	<1.0	<1.0
MW-11	9/25/23	Low-Flow	246.45	EPA 8260D	308	14.2	37.7	<1.0	<1.0
MW-11	12/2/23	Low-Flow	246.45	EPA 8260D	407	18.7	62.0	<5.0	<5.0
MW-12	7/30/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-12	11/6/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-12	2/6/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-12	6/4/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-12	5/17/14	Low-Flow	NA	USEPA Method 8260	0.067	<0.10	<0.10	<0.10	<0.020
MW-12	12/8/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-12	3/16/17	Low-Flow	250.32	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-12	6/28/17	Low-Flow	250.86	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-12	9/20/17	Low-Flow	249.87	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-13	7/30/12	Low-Flow	NA	USEPA Method 8260	110	1.5	<1.0	<1.0	<1.0
MW-13	11/6/12	Low-Flow	NA	USEPA Method 8260	90.6	1.0	<1.0	NA	<0.40
MW-13	2/6/13	Low-Flow	NA	USEPA Method 8260	92.4	<1.0	<1.0	NA	<0.40
MW-13	6/6/13	Low-Flow	NA	USEPA Method 8260	101	1.3	<1.0	NA	<0.40
MW-13	5/18/14	Low-Flow	NA	USEPA Method 8260	57	0.62	<0.10	<0.10	<0.020
MW-13	12/8/16	Low-Flow	NA	USEPA Method 8260	57.9	0.55	<0.50	<0.50	<0.20
MW-13	3/17/17	Low-Flow	248.28	USEPA Method 8260	39.5	0.45	<0.50	<0.50	<0.20
MW-13	6/29/17	Low-Flow	248.94	USEPA Method 8260	45.2	0.45	<0.50	<0.50	<0.20
MW-13	9/21/17	Low-Flow	247.94	USEPA Method 8260	47.9	0.48	<0.50	<0.50	<0.20
MW-13	10/2/21	Low-Flow	246.56	USEPA Method 8260	26.7	<0.40	<1.0	<1.0	<0.20
MW-13	3/11/23	Low-Flow	247.01	EPA 8260D	37.2	<1.0	<1.0	<1.0	<1.0
MW-13	6/18/23	Low-Flow	247.51	EPA 8260D	38.4	<1.0	<1.0	<1.0	<1.0
MW-13	9/24/23	Low-Flow	246.51	EPA 8260D	33.7	<1.0	<1.0	<1.0	<1.0
MW-13	12/1/23	Low-Flow	246.51	EPA 8260D	35.2	<1.0	<1.0	<1.0	<1.0
MW-14	7/31/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-14	11/2/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-14	2/5/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-14	6/5/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-14	5/15/14	Low-Flow	NA	USEPA Method 8260	0.071	<0.10	<0.10	<0.10	<0.020
MW-14	12/8/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-14	3/15/17	Low-Flow	250.41	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20

APP C.2. Historical Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.5	--	--	0.029
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24
MW-14	6/28/17	Low-Flow	250.80	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-14	9/20/17	Low-Flow	249.83	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-15	8/1/12	Low-Flow	NA	USEPA Method 8260	2,760	36.4	4.5	<1.0	<1.0
MW-15	11/7/12	Low-Flow	NA	USEPA Method 8260	1,820	28.5	2.9	NA	<4.0
MW-15 DUP	11/7/12	Low-Flow	NA	USEPA Method 8260	1,850	28.1	<10	NA	<4.0
MW-15	2/6/13	Low-Flow	NA	USEPA Method 8260	1,500	31.0	2.7	NA	<0.40
MW-15	6/7/13	Low-Flow	NA	USEPA Method 8260	1,560	25.9	<10.0	NA	<10.0
MW-15	5/19/14	Low-Flow	NA	USEPA Method 8260	770	20	1.0	0.083	<0.020
MW-15	12/9/16	Low-Flow	NA	USEPA Method 8260	434	12.1	<0.50	<0.50	<0.20
MW-15	3/16/17	Low-Flow	248.94	USEPA Method 8260	523	15.8	0.65	<0.50	<0.20
MW-15 DUP	3/16/17	Low-Flow	248.94	USEPA Method 8260	504	15.5	1.3	<0.50	<0.20
MW-15	6/30/17	Low-Flow	249.60	USEPA Method 8260	546	14.4	<2.5	<2.5	<1.0
MW-15 DUP	6/30/17	Low-Flow	249.60	USEPA Method 8260	540	15.0	<0.50	<0.50	<0.20
MW-15	9/21/17	Low-Flow	248.68	USEPA Method 8260	558	12.7	<2.5	<2.5	<1.0
MW-15 DUP	9/21/17	Low-Flow	248.68	USEPA Method 8260	494	12.5	<2.5	<2.5	<1.0
MW-15	10/1/21	Low-Flow	247.45	USEPA Method 8260	499	10.6	<1.0	<1.0	<0.20
MW-15	3/14/23	Low-Flow	247.42	EPA 8260D	966	21.7	2.7	<1.0	<1.0
MW-15	6/19/23	Low-Flow	247.92	EPA 8260D	646	14.4	1.7	<1.0	<1.0
MW-15	9/25/23	Low-Flow	246.92	EPA 8260D	719	15.8	3.6	<1.0	<1.0
MW-15	12/2/23	Low-Flow	246.92	EPA 8260D	704	14.7	<10.0	<10.0	<10.0
MW-15D	11/15/13	Low-Flow	NA	USEPA Method 8260	13.8	3.5	<1.0	<1.0	<0.40
MW-15D	5/17/14	Low-Flow	NA	USEPA Method 8260	12	2.5	<0.10	<0.10	<0.020
MW-15D	12/9/16	Low-Flow	NA	USEPA Method 8260	18.2	3.1	<0.50	<0.50	<0.20
MW-15D	3/16/17	Low-Flow	224.68	USEPA Method 8260	18.7	3.7	<0.50	<0.50	<0.20
MW-15D	6/29/17	Low-Flow	225.03	USEPA Method 8260	6.6	1.6	<0.50	<0.50	<0.20
MW-15D	9/21/17	Low-Flow	227.53	USEPA Method 8260	8.4	1.6	<0.50	<0.50	<0.20
MW-15D	10/1/21	Low-Flow	229.78	USEPA Method 8260	15.3	0.70	<1.0	<1.0	<0.20
MW-15D	3/11/23	Low-Flow	228.76	EPA 8260D	17.7	2.6	<1.0	<1.0	<1.0
MW-15D	6/18/23	Low-Flow	227.26	EPA 8260D	19.2	2.6	<1.0	<1.0	<1.0
MW-15D	9/24/23	Low-Flow	229.76	EPA 8260D	13.1	1.9	<1.0	<1.0	<1.0
MW-15D	12/1/23	Low-Flow	230.26	EPA 8260D	14.0	1.9	<1.0	<1.0	<1.0
MW-16	7/31/12	Low-Flow	NA	USEPA Method 8260	9.4	<1.0	<1.0	<1.0	<1.0
MW-16	11/5/12	Low-Flow	NA	USEPA Method 8260	14.0	<1.0	<1.0	NA	<0.40
MW-16	2/5/13	Low-Flow	NA	USEPA Method 8260	13.3	<1.0	<1.0	NA	<0.40
MW-16	6/6/13	Low-Flow	NA	USEPA Method 8260	12.2	<0.40	<1.0	NA	<0.40
MW-16	5/15/14	Low-Flow	NA	USEPA Method 8260	9.0	<0.10	<0.10	<0.10	<0.020
MW-16	12/6/16	Low-Flow	248.50	USEPA Method 8260	2.5	<0.40	<0.50	<0.50	<0.20
MW-16	3/15/17	Low-Flow	249.79	USEPA Method 8260	3.3	<0.40	<0.50	<0.50	<0.20
MW-16	6/29/17	Low-Flow	249.99	USEPA Method 8260	1.9	<0.40	<0.50	<0.50	<0.20
MW-16	9/19/17	Low-Flow	249.05	USEPA Method 8260	1.0	<0.40	<0.50	<0.50	<0.20
MW-17	7/31/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	11/5/12	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-17	2/5/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-17	6/4/13	Low-Flow	NA	USEPA Method 8260	<1.0	<1.0	<1.0	NA	<0.40
MW-17	5/15/14	Low-Flow	NA	USEPA Method 8260	0.076	<0.10	<0.10	<0.10	<0.020
MW-17	12/7/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17	3/15/17	Low-Flow	250.24	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17	6/28/17	Low-Flow	250.80	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17	9/20/17	Low-Flow	249.85	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17D	11/14/13	Low-Flow	NA	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.40
MW-17D	5/15/14	Low-Flow	NA	USEPA Method 8260	0.077	<0.10	<0.10	<0.10	<0.020
MW-17D	12/7/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17D	3/15/17	Low-Flow	229.16	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17D	6/28/17	Low-Flow	230.71	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-17D	9/20/17	Low-Flow	228.75	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18	11/14/13	Low-Flow	NA	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.40
MW-18	5/15/14	Low-Flow	NA	USEPA Method 8260	0.072	<0.10	<0.10	<0.10	<0.020
MW-18	12/6/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18	3/14/17	Low-Flow	246.67	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18	6/27/17	Low-Flow	246.58	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18	9/19/17	Low-Flow	246.58	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18D	11/14/13	Low-Flow	NA	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.40
MW-18D	5/15/14	Low-Flow	NA	USEPA Method 8260	0.071	<0.10	<0.10	<0.10	<0.020
MW-18D	12/6/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18D	3/14/17	Low-Flow	218.17	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18D	6/27/17	Low-Flow	217.65	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-18D	9/19/17	Low-Flow	217.65	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19	11/14/13	Low-Flow	NA	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.40
MW-19	5/17/14	Low-Flow	NA	USEPA Method 8260	0.071	<0.10	<0.10	<0.10	<0.020
MW-19	12/7/16	Low-Flow	250.76	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20

APP C.2. Historical Summary of Groundwater Analytical Results

Former Cherry Cleaners

2510 E. Cherry Street, Seattle, WA 98122

VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 476174

Location	Sample Date	Sample Method	Pump Intake Elevation	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
Chemical Abstracts Service (CAS) Registry Number					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels					5.0	5.0	--	--	0.2
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Cancer)					21	0.5	--	--	0.029
WA Dept. of Ecology Model Toxics Control Act (MTCA) Method B Cleanup Levels (Non Cancer)					48	4.0	16	160	24
MW-19	3/14/17	Low-Flow	250.59	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19	6/27/17	Low-Flow	250.61	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19	9/19/17	Low-Flow	250.61	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19D	11/14/13	Low-Flow	NA	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.40
MW-19D	5/17/14	Low-Flow	NA	USEPA Method 8260	0.074	<0.10	<0.10	<0.10	<0.020
MW-19D	12/7/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19D	3/15/17	Low-Flow	223.83	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19D	6/27/17	Low-Flow	225.34	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-19D	9/19/17	Low-Flow	223.38	USEPA Method 8260	0.59	<0.40	<0.50	<0.50	<0.20
MW-20D	11/14/13	Low-Flow	NA	USEPA Method 8260	<1.0	<0.40	<1.0	<1.0	<0.40
MW-20D	5/17/14	Low-Flow	NA	USEPA Method 8260	0.069	<0.10	<0.10	<0.10	<0.020
MW-20D	12/7/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-20D	3/14/17	Low-Flow	225.73	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-20D	6/27/17	Low-Flow	225.35	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-20D	9/19/17	Low-Flow	225.35	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-21D	5/17/14	Low-Flow	NA	USEPA Method 8260	0.075	<0.10	<0.10	<0.10	<0.020
MW-21D	12/7/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-21D	3/14/17	Low-Flow	224.65	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-21D	6/27/17	Low-Flow	224.24	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-21D	9/20/17	Low-Flow	224.23	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-22D	5/18/14	Low-Flow	NA	USEPA Method 8260	0.079	<0.10	<0.10	<0.10	<0.020
MW-22D	12/7/16	Low-Flow	NA	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-22D	3/14/17	Low-Flow	230.17	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-22D	6/27/17	Low-Flow	229.90	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-22D	9/19/17	Low-Flow	229.90	USEPA Method 8260	<0.50	<0.40	<0.50	<0.50	<0.20
MW-23	7/25/14	Low-Flow	NA	USEPA Method 8260	330	13	3.2	0.15	<0.020
MW-23	12/6/16	Low-Flow	249.59	USEPA Method 8260	562	21.6	5.7	<0.50	<0.20
MW-23	3/16/17	Low-Flow	250.33	USEPA Method 8260	572	20.9	5.6	<0.50	<0.20
MW-23	6/29/17	Low-Flow	251.47	USEPA Method 8260	344	12.0	4.7	<2.5	<1.0
MW-23	9/21/17	Low-Flow	250.54	USEPA Method 8260	462	12.7	7.8	<1.0	<0.40
MW-23	10/1/21	Low-Flow	249.14	USEPA Method 8260	197	11.4	29.7	<1.0	<0.20
MW-23	3/13/23	Low-Flow	252.09	EPA 8260D	196	11.8	39.8	<1.0	<1.0
MW-23	6/18/23	Low-Flow	249.59	EPA 8260D	190	9.2	28.4	<1.0	<1.0
MW-23	9/24/23	Low-Flow	249.09	EPA 8260D	181	12.0	38.9	<1.0	<1.0
MW-23	12/2/23	Low-Flow	NA	EPA 8260D	279	17.1	57.5	<2.0	<2.0
MW-101	5/20/14	Low-Flow	NA	USEPA Method 8260	260	32	33	0.13	<0.020
MW-101	12/7/16	Low-Flow	NA	USEPA Method 8260	234	11.1	88.0	<1.0	<0.40
MW-101	3/16/17	Low-Flow	252.44	USEPA Method 8260	204	11.7	116	<0.50	<0.20
MW-101	6/29/17	Low-Flow	253.05	USEPA Method 8260	69.7	2.6	5.5	<0.50	<0.20
MW-101	9/21/17	Low-Flow	252.10	USEPA Method 8260	223	9.4	98.8	<0.50	<0.20
MW-101	10/2/21	Low-Flow	250.72	USEPA Method 8260	144	7.5	20.4	<1.0	<0.20
MW-101	3/12/23	Low-Flow	250.28	EPA 8260D	155	6.6	25.5	<1.0	<1.0
MW-101	6/18/23	Low-Flow	251.07	EPA 8260D	141	6.1	19.6	<1.0	<1.0
MW-101	9/24/23	Low-Flow	NA	EPA 8260D	124	6.1	15.7	<1.0	<1.0
MW-101	12/1/23	Low-Flow	NA	EPA 8260D	110	5.8	13.3	<2.0	<2.0

Notes:

1. Analytical results are presented in micrograms per liter (ug/L).
2. Results are only shown for PCE, TCE, cDCE, tDCE and VC.
3. The applicable MTCA CLs are Method A CLs unless Method A CLs are not listed. Where Method A CLs are not listed, Method B CLs are applicable.
4. A bold font style and blue shading indicates that the concentration exceeds the applicable MTCA Cleanup Level.
5. NA = Not Applicable



Appendix C.3

Historical Summary of Vapor Intrusion Analytical Results

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
2503 E Cherry Street													
IA-7	IA-7	11/14/12	Indoor Air	6L Summa	NA	-30+	-7	TO-15	0.23	<0.18	<0.13	<0.65	<0.042
IA-8	IA-8	11/14/12	Indoor Air	6L Summa	NA	-30	-7	TO-15	0.55	<0.18	<0.13	<0.65	<0.042
IA-9	IA-9	11/14/12	Indoor Air	6L Summa	NA	-30+	-10	TO-15	<0.26	<0.21	<0.16	<0.78	0.092
SB-9	SB-9	02/22/12	Soil Gas					TO-15	1,300	<13.8	<20.3		<6.5
SV-10	SV-10	11/13/12	Sub-slab	6L Summa	NA	-29	-4	TO-15	49	<0.17	<0.12	<0.61	<0.040
SV-11	SV-11	11/13/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	630	<0.72	<0.53	<2.7	<0.17
SV-12	SV-12	11/13/12	Sub-slab	6L Summa	NA	-30	-9	TO-15	11	<0.18	<0.13	<0.65	1.4
SV-13	SV-13	11/13/12	Sub-slab	6L Summa	NA	-30+	-9	TO-15	1,500	<1.9	<1.4	<7.1	<0.46
SV-8	SV-8	11/13/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	450	<0.44	<0.32	<1.6	<0.10
SV-9	SV-9	11/13/12	Sub-slab	6L Summa	NA	-30	-8	TO-15	1.8	<0.20	<0.14	<0.72	<0.047
2509 E Cherry Street													
SV-18	SV-18	11/14/12	Sub-slab	6L Summa	NA	-30+	-5	TO-15	<2.2	<1.8	<1.3	<6.5	<0.42
SV-19	SV-19	11/14/12	Sub-slab	6L Summa	NA	-30+	-8	TO-15	7.2	0.52	1.1	<0.68	<0.044
2510 E Cherry Street													
IA-1		10/12/12	Indoor Air	6L Summa	NA	-30+	-8.0	TO-15 SIM	200	2.1	0.17	<0.66	<0.042
SB-3		02/22/12	Soil Gas					TO-15	233,000	<2,820	<4,150		<1,330
SB-4		02/22/12	Soil Gas					TO-15	196,000	<2,820	<4,150		<1,330
VP-1		10/12/12	Sub-slab	6L Summa	NA	-30+	-7.0	TO-15 SIM	280,000	8,700	<1,400	<1400	<920
2511 E Cherry Street													
IA-11	IA-11	11/14/12	Indoor Air	6L Summa	NA	-30	-5	TO-15	<0.23	<0.18	<0.13	<0.67	<0.043
SV-16	SV-16	11/14/12	Sub-slab	6L Summa	NA	-30+	-7.5	TO-15	0.69	<0.18	<0.13	<0.67	<0.043
SV-17	SV-17	11/14/12	Sub-slab	6L Summa	NA	-30+	-2.5	TO-15	1.5	<0.78	<0.58	<2.9	<0.19
2515 E Cherry Street													
SV-15	SV-15	11/14/12	Sub-slab	6L Summa	NA	-30	-10	TO-15	0.30	<0.20	<0.15	<0.74	<0.048
Building Roof	2516INTAKE-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.24	<0.18	<0.13	<0.66	<0.042
IA-02	2516IA-02-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	12	<0.18	<0.13	<0.65	<0.042
IA-02	2516IA-02-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	15	<0.36	<0.27	<1.3	<0.087
IA-03	2516IA-03-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	24	<0.17	<0.13	<0.64	<0.041
IA-03	2516IA-03-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	25	<0.88	<0.65	<3.2	<0.21
IA-1	IA-1:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30+	-4	TO-15	2.9	<0.22	<0.19	<0.30	<0.15
IA-1	IA1:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-4	TO-15	19.6	0.13	<0.062	<0.062	<0.040
IA-1	IA1:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-5.5	TO-15	4.1	<0.085	<0.062	<0.062	<0.040
IA-1	IA1:A100421	10/04/21	Indoor Air	6L Summa	8.0	-29	-4	TO-15	2.1	0.13	<0.12	<0.12	<0.037

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
IA-1	IA1:A031123	03/11/23	Indoor Air	6L Summa	8.0	-29	-5	TO-15 SIM	17	<0.52	<0.38	<1.9	<0.12
IA-2	IA-2 Twilight	10/24/12	Indoor Air	6L Summa	NA	-29.5	-8	TO-15	6.9	<0.19	<0.14	<0.71	<0.046
IA-2	IA-2:A062917	06/29/17	Indoor Air	6L Summa	7.4	-30+	-5	TO-15	2.2	<0.22	<0.19	<0.30	<0.15
IA-2	FD:A062917	06/29/17	Indoor Air	6L Summa	7.4	-24.5	-3.5	TO-15	5.6	<0.21	<0.18	<0.29	<0.15
IA-2	IA2:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-4	TO-15	16.9	1.2	<0.084	<0.084	<0.054
IA-2	IA2:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-5	TO-15	7.2	<0.088	<0.065	<0.065	<0.042
IA-2	DuplicateIA:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-6	TO-15	8.0	<0.088	<0.065	<0.065	<0.042
IA-2	IA2:A100421	10/04/21	Indoor Air	6L Summa	8.0	-30	-4.5	TO-15	0.91	<0.079	<0.12	<0.12	<0.037
IA-2	FD1:A100421	10/04/21	Indoor Air	6L Summa	8.0	-30	-4.5	TO-15	0.94	2.4	1.6	<0.12	<0.039
IA-2	IA2:A031123	03/11/23	Indoor Air	6L Summa	8.0	-28.5	-3.5	TO-15 SIM	12	<0.27	<0.20	<1.0	<0.064
IA-2	FD1:A031123	03/11/23	Indoor Air	6L Summa	8.0	-29.5	-3.5	TO-15 SIM	13	<0.47	<0.35	<1.7	<0.11
IA-3	IA-3 Twilight	10/24/12	Indoor Air	6L Summa	NA	-29	-8	TO-15	6.8	<0.20	<0.15	<0.76	<0.049
SS-1	SS-1:A062917	06/29/17	Sub-slab	6L Summa	7.5	-30+	-4	TO-15	1,900	18.7	<0.18	<0.29	<0.15
SS-1	SS1:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-11	TO-15	8,550	9.5	<0.085	<0.085	<0.055
SS-1	SS1:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30	-5.5	TO-15	28,000	<40.6	<30.0	<30.0	<19.3
SS-1	SS1:A100421	10/04/21	Sub-slab	6L Summa	8.0	-30	-2	TO-15	29,200	5.6	<0.12	<0.12	<0.037
SS-1	SS1:A031123	03/11/23	Sub-slab	6L Summa	8.0	-29	-5.0	TO-15 SIM	1,300	4.8	<1.1	<5.4	<0.35
SS-2	SS-2:A062917	06/29/17	Sub-slab	6L Summa	7.5	-27	-4	TO-15	636	6.9	<0.18	<0.29	<0.15
SS-2	SS2:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-2	TO-15	544	3.3	<0.058	<0.058	<0.037
SS-2	SS2:A0122720	01/27/20	Sub-slab	6L Summa	8.0	-29.9	-6	TO-15	742	3.8	<0.27	0.40	<0.17
SS-2	SS2:A100421	10/04/21	Sub-slab	6L Summa	8.0	-30	-4	TO-15	6320	14.3	<0.12	<0.12	<0.037
SS-2	SS2:A031123	03/11/23	Sub-slab	6L Summa	8.0	-29	-3.5	TO-15 SIM	20	0.95	<0.10	<0.52	<0.033
SV-2	SV-2 Twilight	10/24/12	Sub-slab	6L Summa	NA	-28.5	-6	TO-15	36,000	<94	<69	<69	<45
SV-3	SV-3 Twilight	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	28,000	<78	<58	<58	<37
SV-4	SV-4 Twilight	10/24/12	Sub-slab	6L Summa	NA	-30	-8	TO-15	110,000	<240	<180	<180	<120
2517 E Cherry Street													
SV-14	SV-14	11/14/12	Sub-slab	6L Summa	NA	-30	-5	TO-15	0.33	<0.17	<0.12	<0.63	<0.040
2518 E Cherry Street													
Building Roof	2518INTAKE-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.33	<0.18	<0.14	<0.68	<0.044
CSA-3	CSA-3:A062917	06/29/17	Crawlspc	6L Summa	7.3	-30+	-4	TO-15	1.4	0.36	<0.18	<0.29	<0.15
CSA-3	CSA3:A022818	02/28/18	Crawlspc	6L Summa	8.0	-29	-4	TO-15	1.4	0.16	<0.062	<0.062	<0.040
IA-01	2518IA-01-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	15	<0.18	<0.13	<0.65	<0.042
IA-01	2518IA-01-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	20	<0.37	<0.27	<1.4	<0.087
IA-02	2518IA-02-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	3.0	<0.36	<0.26	<1.3	<0.085

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
IA-02	2518IA-02-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	2.7	<0.45	<0.33	<1.7	<0.11
IA-3	IA-3:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30	-4	TO-15	1.8	0.24	<0.18	<0.29	<0.15
IA-3	IA3:A022818	02/28/18	Indoor Air	6L Summa	8.0	-29	-2	TO-15	2.2	0.11	<0.062	<0.062	0.047
IA-4	IA-4:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30	-2	TO-15	5.7	1.5	<0.19	<0.30	<0.15
IA-4	IA4:A022818	02/28/18	Indoor Air	6L Summa	8.0	-27	-2	TO-15	3.4	0.86	<0.056	<0.056	<0.036
IA-4	Dup2518:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-5	TO-15	0.68	0.13	<0.062	<0.062	<0.040
SS-4	SS-4:A062917	06/29/17	Sub-slab	6L Summa	7.3	-30+	-4.5	TO-15	2,020	2.5	<0.18	<0.29	<0.15
SS-4	SS4:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-4	TO-15	1,610	0.34	<0.062	<0.062	<0.040
SV-5	SV-5 TANA MKT.	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	20	<0.18	<0.13	<0.67	<0.043
SV-6	SV-6 TANA MKT.	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	0.90	<0.18	<0.13	<0.67	<0.043
SV-7	SV-7 TANA MKT.	10/24/12	Sub-slab	6L Summa	NA	-28	-7	TO-15	1.8	<0.18	<0.13	<0.67	<0.043
711A 26th Avenue													
IA-18	IA-18	12/06/12	Indoor Air	6L Summa	NA	-30+	-7.5	TO-15	2.8	<0.19	<0.14	<0.69	<0.045
IA-19	IA-19	12/06/12	Indoor Air	6L Summa	NA	-29	-7.5	TO-15	2.5	<0.19	<0.14	<0.69	<0.045
720 E 25th Street													
IA-14	IA-14:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042
IA-14	IA-14:A031617	03/16/17	Indoor Air	6L Summa	8.1	-26.0	-4.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.81
IA-15	IA-15:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042
IA-15	IA-15:A031617	03/16/17	Indoor Air	6L Summa	8.1	-35.0	-6.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77
IA-16	IA-16:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040
IA-16	IA-16:A031617	03/16/17	Indoor Air	6L Summa	8.1	-30+	-6.0	TO-15	22.5	220	<1.3	<1.3	<0.40
IA-16	IA-16:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-3.0	TO-15	0.13	<0.079	<0.058	<0.058	<0.037
IA-16	Dup720:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.13	0.086	<0.056	<0.056	<0.036
IA-16	IA-16:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-4.0	TO-15	0.20	<0.081	<0.060	<0.060	<0.039
IA-16	DuplicateIA:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.91	<0.085	<0.062	0.11	<0.040
IA-17	IA-17:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	4.8	3.2	<0.10	<0.52	<0.033
IA-17	IA-17:A031617	03/16/17	Indoor Air	6L Summa	7.7	-30.0	-6.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40
IA-17	IA-17:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-2.0	TO-15	0.16	0.089	<0.056	<0.056	<0.036
IA-17	IA-17:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.5	-15.0	TO-15	<0.16	<0.13	<0.093	<0.093	<0.060
IA16	IA16:A011322	01/13/22	Indoor Air	6L Summa	7.0	-30.0	-5.0	TO-15	0.72	<0.085	<0.12	<0.12	<0.040
IA16	FD:A011322	01/13/22	Indoor Air	6L Summa	8.0	-29.0	-3.0	TO-15	0.73	<0.080	<0.12	<0.12	<0.038
IA16	IA16:A031523	03/15/23	Indoor Air	6L Summa	8.0	-28.0	-2.5	TO-15 SIM	<0.17	<0.13	<0.098	<0.49	<0.031
IA16	FD:A031523	03/15/23	Indoor Air	6L Summa	8.0	-28.0	-2.5	TO-15 SIM	<0.17	<0.13	<0.098	<0.49	<0.031
IA17	IA17:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.64	<0.074	<0.11	0.39	<0.035

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
IA17	IA17:A031523	03/15/23	Indoor Air	6L Summa	8.0	-25.5	-3.5	TO-15 SIM	<0.17	<0.13	<0.098	<0.49	<0.032
IA-10	IA-10:A110713	11/07/13	Indoor Air	6L Summa	8.0	-29.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040
IA-10	IA-10:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77
IA-11	IA-11:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040
IA-11	IA-11:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77
IA-12	IA-12:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040
IA-12	IA-12:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-5.0	TO-15	<2.2	<0.89	<1.3	<1.3	<0.42
IA-12	IA-12:A022818	02/28/18	Indoor Air	6L Summa	8.0	-29.0	-10.0	TO-15	0.23	0.23	<0.074	<0.074	<0.048
IA-12	IA-12:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.13	<0.085	<0.062	<0.062	<0.040
IA-13	IA-13:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	0.65	<0.17	<0.12	<0.62	<0.040
IA-13	IA-13:A031617	03/16/17	Indoor Air	6L Summa	8.2	-30.0	-4.0	TO-15	<2.3	<0.92	<1.4	<1.4	<0.44
IA-13	IA-13:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-2.0	TO-15	0.13	0.13	<0.058	<0.058	<0.037
IA-13	IA-13:A012720	01/27/20	Indoor Air	6L Summa	8.0	-28.0	-6.0	TO-15	<0.12	<0.093	<0.069	<0.069	<0.044
IA-4	IA-4:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040
IA-4	IA-4:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-6.0	TO-15	<2.1	<0.82	<1.2	<1.2	<0.39
IA-5	IA-5:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	<0.21	<0.17	<0.12	<0.63	<0.040
IA-5	IA-5:A031617	03/16/17	Indoor Air	6L Summa	8.1	-30.0	-5.5	TO-15	<2.1	<0.82	<1.2	<1.2	<0.39
IA-6	IA-6:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.16	<0.12	<0.61	<0.039
IA-6	IA-6:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-7.5	TO-15	<0.92	<0.74	<1.1	<1.1	<0.70
IA-7	IA-7:A110713	11/07/13	Indoor Air	6L Summa	8.1	-30+	-6.5	TO-15	<0.21	<0.17	<0.12	<0.62	<0.040
IA-7	IA-7:A031617	03/16/17	Indoor Air	6L Summa	8.1	-30+	-4.0	TO-15	<0.99	<0.79	<1.2	<1.2	<0.75
IA12	IA12:A011322	01/13/22	Indoor Air	6L Summa	8.0	-28.0	-3.0	TO-15	0.47	<0.080	<0.12	<0.12	<0.038
IA12	IA12:A031523	03/15/23	Indoor Air	6L Summa	8.0	-28.0	-2.5	TO-15 SIM	<0.17	<0.13	<0.099	<0.50	<0.032
IA13	IA13:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.49	<0.083	<0.12	<0.12	<0.040
IA13	IA13:A031523	03/15/23	Indoor Air	6L Summa	8.0	-27.5	-5.5	TO-15 SIM	<0.17	<0.14	<0.10	<0.51	<0.033
SB-11	SB-11	02/22/12	Soil Gas						27,600	<553	<814		<261
SS-4	SS-4:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	0.73	<0.17	<0.12	<0.62	<0.040
SS-4	SS-4:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-5.0	TO-15	1.2	<0.82	<1.2	<1.2	<0.39
SS-5	SS-5:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	0.29	<0.17	<0.12	<0.62	0.072
SS-5	SS-5:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-6.0	TO-15	<1.8	<0.74	<1.1	<1.1	<0.35
SS-6	SS-6:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.62	<0.040
SS-6	SS-6:A031617	03/16/17	Sub-slab	6L Summa	8.1	-30.0	-6.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40
SS-7	SS-7:A110713	11/07/13	Sub-slab	6L Summa	8.1	-30.0	-5.5	TO-15	0.22	<0.16	<0.12	<0.61	<0.039
SS-7	SS-7:A031617	03/16/17	Sub-slab	6L Summa	8.1	-30+	-7.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.81

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
IA-1	IA-1:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.5	TO-15 SIM	0.38	<0.17	<0.12	<0.62	<0.040
IA-1	IA-1:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40
IA-1	IA-1:A022818	02/28/18	Indoor Air	6L Summa	8.0	-29.0	-3.0	TO-15	0.31	<0.079	<0.058	<0.058	<0.037
IA-1	IA-1:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.5	TO-15	0.12	<0.085	<0.062	<0.062	<0.040
IA-13	IA-13 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-29.0	-8.0	TO-15 SIM	0.81	<0.20	<0.14	<0.72	<0.047
IA-14	IA-14 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-28.0	-11.0	TO-15 SIM	<0.23	<0.18	<0.14	<0.68	<0.044
IA-15	IA-15 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa		-28.5	-8.0	TO-15 SIM	0.41	<0.21	<0.16	<0.79	<0.051
IA-16	IA-16 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-27.5	-5.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.66	<0.042
IA-17	IA-17 ISS 720 25th Ave	11/30/12	Indoor Air	6L Summa	8.0	-20.0	-7.0	TO-15 SIM	0.57	<0.18	<0.13	<0.67	<0.043
IA-2	IA-2:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-5.5	TO-15 SIM	0.36	0.17	<0.12	<0.62	<0.040
IA-2	IA-2:A031617	03/16/17	Indoor Air	6L Summa	8.0	-29.0	-5.0	TO-15	<2.1	<0.85	<1.3	<1.3	<0.40
IA-2	FD:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.40
IA-2	IA-2:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30.0	-4.0	TO-15	0.29	0.20	<0.062	<0.062	<0.040
IA-2	IA-2:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-5.0	TO-15	0.71	<0.088	<0.065	<0.065	<0.042
IA-3	IA-3:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042
IA-3	IA-3:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30.0	-4.0	TO-15	1.0	<0.79	<1.2	<1.2	<0.37
IA-3	IA-3:A022818	02/28/18	Indoor Air	6L Summa	8.0	-28.0	-3.0	TO-15	0.22	0.11	<0.062	<0.062	<0.040
IA-3	IA-3:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30.0	-10.0	TO-15	<0.12	<0.096	<0.071	<0.071	<0.046
IA-8	IA-8:A110713	11/07/13	Indoor Air	6L Summa	8.0	-29.5	-5.5	TO-15 SIM	<0.23	<0.18	<0.13	<0.66	<0.043
IA-8	IA-8:A031617	03/16/17	Indoor Air	6L Summa	8.0	-30+	-5.0	TO-15	<1.0	<0.82	<1.2	<1.2	<0.77
IA-9	IA-9:A110713	11/07/13	Indoor Air	6L Summa	8.0	-30.0	-7.0	TO-15 SIM	<0.23	<0.18	<0.13	<0.67	<0.043
IA-9	IA-9:A031617	03/16/17	Indoor Air	6L Summa	8.0	-26.5	-4.0	TO-15	<1.1	<0.85	<1.3	<1.3	<0.81
IA1	IA1:A011322	01/13/22	Indoor Air	6L Summa	8.0	-29.0	-3.0	TO-15	1.8	<0.080	<0.12	<0.12	<0.038
IA1	IA1:A031523	03/15/23	Indoor Air	6L Summa	8.0	-34.0	-4.5	TO-15 SIM	<0.17	<0.14	<0.10	<0.51	<0.033
IA2	IA2:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-3.0	TO-15	4.3	<0.079	<0.12	<0.12	<0.037
IA2	IA2:A031523	03/15/23	Indoor Air	6L Summa	8.0	-29.0	-4.0	TO-15 SIM	0.69	<0.14	<0.10	<0.50	<0.032
IA3	IA3:A011322	01/13/22	Indoor Air	6L Summa	8.0	-30.0	-3.0	TO-15	0.25	<0.080	<0.12	<0.12	<0.038
IA3	IA3:A031523	03/15/23	Indoor Air	6L Summa	8.0	-27.5	-5.5	TO-15 SIM	<0.18	<0.14	<0.10	<0.52	<0.033
SS-1	SS-1:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-4.5	TO-15 SIM	26	<0.17	<0.13	<0.63	<0.041
SS-1	SS-1:A031617	03/16/17	Sub-slab	6L Summa	8.0	-28.0	-4.0	TO-15	62.7	<0.85	<1.3	<1.3	<0.40
SS-1	SS-1:A022818	02/28/18	Sub-slab	6L Summa	8.0	-28.0	-2.0	TO-15	9.8	17.5	0.060	0.21	<0.037
SS-1	SS-1:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30.0	-6.0	TO-15	84.2	0.28	<0.062	<0.062	<0.040
SS-2	SS-2:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-6.5	TO-15 SIM	82	<0.17	<0.12	<0.62	0.10
SS-2	SS-2:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30.0	-5.5	TO-15	445	<0.89	<1.3	<1.3	<0.42

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
SS-2	SS-2:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30.0	-2.0	TO-15	442	0.26	<0.058	<0.058	<0.037
SS-2	SS-2:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30.0	-9.5	TO-15	412	0.48	<0.068	0.070	<0.044
SS-3	SS-3:A110713	11/07/13	Sub-slab	6L Summa	8.0	-27.0	-13.5	TO-15 SIM	4.1	<0.24	<0.18	<0.88	0.49
SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port				
SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port				
SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port				
SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port				
SS-3	--	--	Sub-slab	--	--	--	--	--	Sample not collected because of water in sample port				
SS-8	SS-8:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-7.0	TO-15 SIM	1.9	<0.17	<0.12	<0.61	0.083
SS-8	SS-8:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-5.0	TO-15	4.3	<0.85	<1.3	<1.3	<0.81
SS-9	SS-9:A110713	11/07/13	Sub-slab	6L Summa	8.0	-30.0	-5.5	TO-15 SIM	4.4	<0.17	<0.13	<0.63	0.11
SS-9	SS-9:A031617	03/16/17	Sub-slab	6L Summa	8.0	-30+	-6.5	TO-15	4.1	<0.85	<1.3	<1.3	<0.81
SS1	SS1:A011322	01/13/22	Sub-slab	6L Summa	8.0	-30.0	-4.0	TO-15	22.6	<0.079	<0.12	<0.12	<0.037
SS1	SS1:A031523	03/15/23	Sub-slab	6L Summa	8.0	-34.0	-4.0	TO-15 SIM	1.6	<0.14	<0.10	<0.51	<0.033
SS2	SS2:A011322	01/13/22	Sub-slab	6L Summa	8.0	-30.0	-5.0	TO-15	217	0.18	<0.12	<0.12	<0.038
SS2	SS2:A031523	03/15/23	Sub-slab	6L Summa	8.0	-28.0	-3.5	TO-15 SIM	16	<0.14	<0.10	<0.51	<0.033
SV-20	SV-20 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-30.0	-8.0	TO-15 SIM	67	<0.19	<0.14	<0.71	<0.046
SV-21	SV-21 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-29.0	-8.0	TO-15 SIM	210	1.4	<0.15	<0.75	<0.048
SV-22	SV-22 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-29.5	-7.0	TO-15 SIM	240	<0.20	<0.14	<0.72	<0.047
SV-23	SV-23 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-28.5	-7.0	TO-15 SIM	230	<0.19	<0.14	<0.71	<0.046
SV-24	SV-24 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-28.0	-11.0	TO-15 SIM	300	<0.26	<0.19	<0.96	<0.062
SV-25	SV-25 ISS 720 25th Ave	11/30/12	Sub-slab	6L Summa	8.0	-27.0	-7.0	TO-15 SIM	75	1.7	<0.14	<0.70	<0.046
Outdoor Air													
AMB-3	AMB-3 ISS 720 25th Ave	11/30/12	Outdoor Air	6L Summa	8.0	-29.5	-8.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042
OA	OA:A011322	01/13/22	Outdoor Air	6L Summa	8.0	-30	-5.0	TO-15	0.49	<0.077	<0.11	<0.11	<0.037
OA-1	OA1:A031123	03/11/23	Outdoor Air	6L Summa	8.0	-28	-6.0	TO-15 SIM	0.26	<0.14	<0.10	<0.52	<0.033
OA1	OA-1:A110713	11/07/13	Outdoor Air	6L Summa	8.0	-30.0+	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040
OA1	OA1:A100421	10/24/21	Outdoor Air	6L Summa	8.0	-30	-7.5	TO-15	0.18	<0.079	<0.12	<0.12	<0.037
OA2	OA-1:A110713	11/07/13	Outdoor Air	6L Summa	8.0	-30.0+	-6.5	TO-15 SIM	<0.22	<0.17	<0.13	<0.63	<0.041
OA720	OA-720:A022818	02/28/18	Outdoor Air	6L Summa	8.0	-30.0+	-4.0	TO-15 SIM	0.20	0.17	<0.060	<0.060	<0.039
OA720	OA720:A012720	01/27/20	Outdoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	1.3	0.089	<0.064	<0.064	<0.041
Outdoor	AMB-1	10/24/12	Outdoor Air	6L Summa	NA	-30+	-5.0	TO-15	0.68	<0.17	<0.12	<0.61	<0.040
Outdoor	AMB-2	11/14/12	Outdoor Air	6L Summa	NA	-30+	-2.5	TO-15	<0.73	<0.58	<0.42	<2.1	<0.14

Appendix C.3. Historical Summary of Vapor Intrusion Analytical Results

Former Cherry Cleaners
2510 E. Cherry Street, Seattle, WA 98122
VCP ID No. NW2009

Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
				Chemical Abstracts Service Registry Number ("CASRN")					127-18-4	79-01-6	156-59-2	156-60-5	75-01-4
Outdoor	AMB-01-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.26	<0.17	<0.12	<0.63	<0.040
Outdoor	AMB-01-20130530	05/30/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	<0.22	<0.18	<0.13	<0.66	<0.042
Outdoor	OA:A062917	06/29/17	Outdoor Air	6L Summa	6.1	-27	-2.0	TO-15	1.2	<0.21	<0.18	<0.29	<0.15
Outdoor	OA2516:A022818	02/28/18	Outdoor Air	6L Summa	8.0	-30	-3.0	TO-15	0.42	<0.076	<0.056	<0.056	<0.036
Outdoor	OA2516:A012720	01/27/20	Outdoor Air	6L Summa	8.0	-29.5	-6.0	TO-15	1.3	0.087	<0.062	<0.062	0.042

- Notes:
1. Analytical results are presented in micrograms per liter (ug/L).
 2. Results are only shown for PCE, TCE, cDCE, tDCE and VC.
 3. NA = Not Available.



VCP ID No. NW2009

Project No. WAKS2510C22.2

Date: 4/1/24

Appendix D

Laboratory Analytical Reports



VCP ID No. NW2009

Project No. WAKS2510C22.2

Date: 4/1/24

Appendix D.1

Q1 2023 Groundwater Analytical Report

March 26, 2023

Jason Oland
ELAM Group
161 Lakeview Drive
Suite B
Noblesville, IN 46060

RE: Project: WAK52510C
Pace Project No.: 10645984

Dear Jason Oland:

Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rachel Johnson
rachel.johnson@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Chris Sloffer, ELM Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WAK52510C
Pace Project No.: 10645984

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WAK52510C

Pace Project No.: 10645984

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10645984001	FD1: G031423	Water	03/11/23 00:00	03/16/23 08:50
10645984002	EB1: W031023	Water	03/10/23 11:50	03/16/23 08:50
10645984003	EB2: W031423	Water	03/14/23 12:10	03/16/23 08:50
10645984004	MW1: G031423	Water	03/14/23 15:23	03/16/23 08:50
10645984005	MW2R: G031323	Water	03/13/23 12:50	03/16/23 08:50
10645984006	MW3R: G031323	Water	03/13/23 11:40	03/16/23 08:50
10645984007	MW4: G031123	Water	03/11/23 12:30	03/16/23 08:50
10645984008	MW5: G031223	Water	03/12/23 10:53	03/16/23 08:50
10645984009	MW6: G031223	Water	03/12/23 12:07	03/16/23 08:50
10645984010	MW7: G031323	Water	03/13/23 16:45	03/16/23 08:50
10645984011	MW9: G031023	Water	03/10/23 16:00	03/16/23 08:50
10645984012	MW11: G031423	Water	03/14/23 10:27	03/16/23 08:50
10645984013	MW15: G031423	Water	03/13/23 11:45	03/16/23 08:50
10645984014	MW15D: G031123	Water	03/14/23 15:54	03/16/23 08:50
10645984015	MW23: G031327	Water	03/14/23 10:04	03/16/23 08:50
10645984016	MW101: G031223	Water	03/12/23 14:45	03/16/23 08:50
10645984017	Trip Blank	Water	03/10/23 00:00	03/16/23 08:50
10645984018	MW13: G031123	Water	03/11/23 18:10	03/16/23 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WAK52510C

Pace Project No.: 10645984

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10645984001	FD1: G031423	EPA 8260D	JEM, PAB	72	PASI-M
10645984002	EB1: W031023	EPA 8260D	PAB	72	PASI-M
10645984003	EB2: W031423	EPA 8260D	PAB	72	PASI-M
10645984004	MW1: G031423	EPA 8260D	PAB	72	PASI-M
10645984005	MW2R: G031323	EPA 8260D	JEM, PAB	72	PASI-M
10645984006	MW3R: G031323	EPA 8260D	JEM, PAB	72	PASI-M
10645984007	MW4: G031123	EPA 8260D	PAB	72	PASI-M
10645984008	MW5: G031223	EPA 8260D	PAB	72	PASI-M
10645984009	MW6: G031223	EPA 8260D	PAB	72	PASI-M
10645984010	MW7: G031323	EPA 8260D	JEM, PAB	72	PASI-M
10645984011	MW9: G031023	EPA 8260D	PAB	72	PASI-M
10645984012	MW11: G031423	EPA 8260D	JEM, PAB	72	PASI-M
10645984013	MW15: G031423	EPA 8260D	JEM, PAB	72	PASI-M
10645984014	MW15D: G031123	EPA 8260D	PAB, TKL	72	PASI-M
10645984015	MW23: G031327	EPA 8260D	JEM, PAB	72	PASI-M
10645984016	MW101: G031223	EPA 8260D	PAB	72	PASI-M
10645984017	Trip Blank	EPA 8260D	PAB	72	PASI-M
10645984018	MW13: G031123	EPA 8260D	PAB	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: FD1: G031423		Lab ID: 10645984001		Collected: 03/11/23 00:00		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	1470	ug/L	200	20		03/23/23 00:46	67-64-1	1M	
Allyl chloride	ND	ug/L	2.5	1		03/17/23 18:29	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 18:29	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 18:29	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 18:29	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 18:29	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 18:29	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 18:29	74-83-9		
2-Butanone (MEK)	530	ug/L	10.0	1		03/17/23 18:29	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 18:29	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 18:29	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 18:29	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 18:29	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 18:29	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 18:29	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 18:29	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 18:29	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 18:29	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 18:29	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 18:29	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:29	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:29	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:29	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 18:29	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 18:29	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 18:29	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 18:29	75-35-4		
cis-1,2-Dichloroethene	1960	ug/L	20.0	20		03/23/23 00:46	156-59-2	1M	
trans-1,2-Dichloroethene	2.1	ug/L	1.0	1		03/17/23 18:29	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 18:29	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 18:29	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 18:29	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 18:29	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 18:29	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 18:29	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 18:29	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 18:29	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 18:29	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 18:29	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 18:29	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 18:29	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 18:29	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: FD1: G031423		Lab ID: 10645984001		Collected: 03/11/23 00:00		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 18:29	1634-04-4	1M	
Naphthalene	ND	ug/L	1.0	1		03/17/23 18:29	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 18:29	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 18:29	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 18:29	79-34-5		
Tetrachloroethene	450	ug/L	20.0	20		03/23/23 00:46	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 18:29	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 18:29	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:29	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:29	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 18:29	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 18:29	79-00-5		
Trichloroethene	46.0	ug/L	1.0	1		03/17/23 18:29	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 18:29	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 18:29	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 18:29	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 18:29	108-67-8		
Vinyl chloride	9.8	ug/L	1.0	1		03/17/23 18:29	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 18:29	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 18:29	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 18:29	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		03/17/23 18:29	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/17/23 18:29	460-00-4		
Toluene-d8 (S)	96	%.	75-125	1		03/17/23 18:29	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: EB1: W031023		Lab ID: 10645984002		Collected: 03/10/23 11:50		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 15:00	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 15:00	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 15:00	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 15:00	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 15:00	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 15:00	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 15:00	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 15:00	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 15:00	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 15:00	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 15:00	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 15:00	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 15:00	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 15:00	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:00	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:00	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 15:00	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 15:00	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 15:00	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 15:00	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:00	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:00	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:00	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 15:00	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:00	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:00	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:00	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:00	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:00	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:00	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:00	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:00	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:00	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:00	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:00	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:00	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 15:00	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 15:00	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 15:00	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 15:00	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 15:00	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 15:00	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: EB1: W031023		Lab ID: 10645984002		Collected: 03/10/23 11:50		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 15:00	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 15:00	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 15:00	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:00	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:00	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		03/17/23 15:00	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 15:00	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 15:00	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:00	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:00	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:00	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:00	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 15:00	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:00	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 15:00	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 15:00	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:00	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 15:00	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 15:00	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 15:00	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 15:00	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		03/17/23 15:00	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 15:00	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		03/17/23 15:00	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: EB2: W031423		Lab ID: 10645984003		Collected: 03/14/23 12:10		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 15:16	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 15:16	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 15:16	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 15:16	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 15:16	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 15:16	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 15:16	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 15:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 15:16	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 15:16	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 15:16	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 15:16	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 15:16	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 15:16	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:16	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:16	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 15:16	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 15:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 15:16	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 15:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:16	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 15:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:16	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:16	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:16	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:16	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 15:16	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 15:16	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 15:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 15:16	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 15:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 15:16	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: EB2: W031423		Lab ID: 10645984003		Collected: 03/14/23 12:10		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 15:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 15:16	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 15:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:16	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		03/17/23 15:16	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 15:16	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 15:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:16	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 15:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:16	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/23 15:16	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 15:16	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:16	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 15:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 15:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 15:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 15:16	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		03/17/23 15:16	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/17/23 15:16	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 15:16	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW1: G031423		Lab ID: 10645984004		Collected: 03/14/23 15:23		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	1640	ug/L	100	10		03/17/23 19:33	67-64-1		
Allyl chloride	ND	ug/L	25.0	10		03/17/23 19:33	107-05-1		
Benzene	ND	ug/L	10.0	10		03/17/23 19:33	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		03/17/23 19:33	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		03/17/23 19:33	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		03/17/23 19:33	75-27-4		
Bromoform	ND	ug/L	10.0	10		03/17/23 19:33	75-25-2		
Bromomethane	ND	ug/L	25.0	10		03/17/23 19:33	74-83-9		
2-Butanone (MEK)	505	ug/L	100	10		03/17/23 19:33	78-93-3		
n-Butylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		03/17/23 19:33	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		03/17/23 19:33	108-90-7		
Chloroethane	ND	ug/L	10.0	10		03/17/23 19:33	75-00-3		
Chloroform	11.8	ug/L	10.0	10		03/17/23 19:33	67-66-3		
Chloromethane	ND	ug/L	10.0	10		03/17/23 19:33	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		03/17/23 19:33	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		03/17/23 19:33	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		03/17/23 19:33	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		03/17/23 19:33	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		03/17/23 19:33	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		03/17/23 19:33	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		03/17/23 19:33	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		03/17/23 19:33	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		03/17/23 19:33	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		03/17/23 19:33	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		03/17/23 19:33	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		03/17/23 19:33	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		03/17/23 19:33	75-35-4		
cis-1,2-Dichloroethene	1920	ug/L	10.0	10		03/17/23 19:33	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		03/17/23 19:33	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		03/17/23 19:33	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		03/17/23 19:33	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		03/17/23 19:33	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		03/17/23 19:33	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		03/17/23 19:33	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		03/17/23 19:33	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		03/17/23 19:33	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		03/17/23 19:33	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		03/17/23 19:33	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		03/17/23 19:33	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		03/17/23 19:33	99-87-6		
Methylene Chloride	ND	ug/L	10.0	10		03/17/23 19:33	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		03/17/23 19:33	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW1: G031423		Lab ID: 10645984004		Collected: 03/14/23 15:23		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		03/17/23 19:33	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		03/17/23 19:33	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	103-65-1		
Styrene	ND	ug/L	10.0	10		03/17/23 19:33	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		03/17/23 19:33	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		03/17/23 19:33	79-34-5		
Tetrachloroethene	474	ug/L	10.0	10		03/17/23 19:33	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		03/17/23 19:33	109-99-9		
Toluene	ND	ug/L	10.0	10		03/17/23 19:33	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		03/17/23 19:33	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		03/17/23 19:33	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		03/17/23 19:33	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		03/17/23 19:33	79-00-5		
Trichloroethene	42.2	ug/L	10.0	10		03/17/23 19:33	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		03/17/23 19:33	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	25.0	10		03/17/23 19:33	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		03/17/23 19:33	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		03/17/23 19:33	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		03/17/23 19:33	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		03/17/23 19:33	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		03/17/23 19:33	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		03/17/23 19:33	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	10		03/17/23 19:33	2199-69-1	D4	
4-Bromofluorobenzene (S)	98	%.	75-125	10		03/17/23 19:33	460-00-4		
Toluene-d8 (S)	97	%.	75-125	10		03/17/23 19:33	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW2R: G031323		Lab ID: 10645984005		Collected: 03/13/23 12:50		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 17:09	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 17:09	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 17:09	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 17:09	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 17:09	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 17:09	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 17:09	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 17:09	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 17:09	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	98-06-6		
Carbon tetrachloride	1.7	ug/L	1.0	1		03/17/23 17:09	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 17:09	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 17:09	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 17:09	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 17:09	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:09	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:09	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 17:09	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 17:09	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 17:09	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 17:09	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:09	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:09	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:09	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 17:09	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:09	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:09	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:09	75-35-4		
cis-1,2-Dichloroethene	7.3	ug/L	1.0	1		03/17/23 17:09	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:09	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:09	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:09	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:09	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:09	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:09	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:09	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:09	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 17:09	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 17:09	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 17:09	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 17:09	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 17:09	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 17:09	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW2R: G031323		Lab ID: 10645984005		Collected: 03/13/23 12:50		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 17:09	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 17:09	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 17:09	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:09	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:09	79-34-5		
Tetrachloroethene	237	ug/L	5.0	5		03/22/23 23:44	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 17:09	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 17:09	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:09	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:09	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:09	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:09	79-00-5		
Trichloroethene	11.8	ug/L	1.0	1		03/17/23 17:09	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:09	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/23 17:09	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 17:09	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:09	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 17:09	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 17:09	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 17:09	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 17:09	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		03/17/23 17:09	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/17/23 17:09	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		03/17/23 17:09	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW3R: G031323		Lab ID: 10645984006		Collected: 03/13/23 11:40		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 17:25	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 17:25	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 17:25	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 17:25	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 17:25	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 17:25	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 17:25	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 17:25	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 17:25	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	98-06-6		
Carbon tetrachloride	1.2	ug/L	1.0	1		03/17/23 17:25	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 17:25	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 17:25	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 17:25	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 17:25	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:25	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:25	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 17:25	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 17:25	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 17:25	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 17:25	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:25	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:25	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:25	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 17:25	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:25	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:25	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:25	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:25	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:25	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:25	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:25	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:25	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:25	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:25	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:25	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:25	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 17:25	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 17:25	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 17:25	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 17:25	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 17:25	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 17:25	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW3R: G031323		Lab ID: 10645984006		Collected: 03/13/23 11:40		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 17:25	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 17:25	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 17:25	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:25	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:25	79-34-5		
Tetrachloroethene	195	ug/L	2.0	2		03/22/23 23:12	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 17:25	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 17:25	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:25	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:25	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:25	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:25	79-00-5		
Trichloroethene	2.6	ug/L	1.0	1		03/17/23 17:25	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:25	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 17:25	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 17:25	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:25	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 17:25	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 17:25	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 17:25	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 17:25	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 17:25	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 17:25	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		03/17/23 17:25	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW4: G031123		Lab ID: 10645984007		Collected: 03/11/23 12:30		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 15:48	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 15:48	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 15:48	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 15:48	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 15:48	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 15:48	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 15:48	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 15:48	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 15:48	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 15:48	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 15:48	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 15:48	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 15:48	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 15:48	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:48	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:48	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 15:48	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 15:48	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 15:48	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 15:48	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:48	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:48	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:48	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 15:48	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:48	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:48	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:48	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:48	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:48	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:48	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:48	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:48	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:48	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:48	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:48	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:48	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 15:48	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 15:48	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 15:48	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 15:48	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 15:48	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 15:48	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW4: G031123		Lab ID: 10645984007		Collected: 03/11/23 12:30		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 15:48	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 15:48	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 15:48	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:48	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:48	79-34-5		
Tetrachloroethene	5.0	ug/L	1.0	1		03/17/23 15:48	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 15:48	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 15:48	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:48	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:48	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:48	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:48	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 15:48	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:48	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 15:48	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 15:48	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:48	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 15:48	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 15:48	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 15:48	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 15:48	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 15:48	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 15:48	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 15:48	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW5: G031223		Lab ID: 10645984008		Collected: 03/12/23 10:53		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 16:20	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 16:20	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 16:20	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 16:20	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 16:20	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 16:20	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 16:20	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 16:20	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 16:20	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 16:20	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 16:20	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 16:20	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 16:20	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 16:20	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:20	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:20	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 16:20	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 16:20	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 16:20	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 16:20	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:20	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:20	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:20	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 16:20	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:20	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:20	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:20	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:20	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:20	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:20	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:20	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:20	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:20	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:20	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:20	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:20	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 16:20	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 16:20	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 16:20	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 16:20	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 16:20	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 16:20	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW5: G031223		Lab ID: 10645984008		Collected: 03/12/23 10:53		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 16:20	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 16:20	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 16:20	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:20	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:20	79-34-5		
Tetrachloroethene	41.4	ug/L	1.0	1		03/17/23 16:20	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 16:20	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 16:20	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:20	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:20	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:20	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:20	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 16:20	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:20	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 16:20	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 16:20	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:20	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 16:20	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 16:20	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 16:20	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 16:20	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 16:20	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/17/23 16:20	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 16:20	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW6: G031223		Lab ID: 10645984009		Collected: 03/12/23 12:07		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 16:36	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 16:36	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 16:36	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 16:36	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 16:36	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 16:36	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 16:36	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 16:36	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 16:36	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 16:36	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 16:36	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 16:36	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 16:36	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 16:36	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:36	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:36	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 16:36	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 16:36	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 16:36	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 16:36	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:36	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:36	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:36	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 16:36	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:36	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:36	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:36	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:36	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:36	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:36	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:36	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:36	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:36	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:36	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:36	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:36	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 16:36	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 16:36	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 16:36	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 16:36	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 16:36	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 16:36	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW6: G031223		Lab ID: 10645984009		Collected: 03/12/23 12:07		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 16:36	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 16:36	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 16:36	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:36	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:36	79-34-5		
Tetrachloroethene	97.0	ug/L	1.0	1		03/17/23 16:36	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 16:36	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 16:36	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:36	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:36	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:36	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:36	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 16:36	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:36	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 16:36	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 16:36	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:36	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 16:36	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 16:36	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 16:36	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 16:36	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		03/17/23 16:36	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/17/23 16:36	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		03/17/23 16:36	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW7: G031323		Lab ID: 10645984010		Collected: 03/13/23 16:45		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Acetone	73.5	ug/L	50.0	5		03/22/23 23:59	67-64-1	D4	
Allyl chloride	ND	ug/L	12.5	5		03/17/23 18:45	107-05-1		
Benzene	ND	ug/L	5.0	5		03/17/23 18:45	71-43-2		
Bromobenzene	ND	ug/L	5.0	5		03/17/23 18:45	108-86-1		
Bromochloromethane	ND	ug/L	5.0	5		03/17/23 18:45	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	5		03/17/23 18:45	75-27-4		
Bromoform	ND	ug/L	5.0	5		03/17/23 18:45	75-25-2		
Bromomethane	ND	ug/L	12.5	5		03/17/23 18:45	74-83-9		
2-Butanone (MEK)	ND	ug/L	50.0	5		03/22/23 23:59	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	98-06-6		
Carbon tetrachloride	ND	ug/L	5.0	5		03/17/23 18:45	56-23-5		
Chlorobenzene	ND	ug/L	5.0	5		03/17/23 18:45	108-90-7		
Chloroethane	ND	ug/L	5.0	5		03/17/23 18:45	75-00-3		
Chloroform	ND	ug/L	5.0	5		03/17/23 18:45	67-66-3		
Chloromethane	ND	ug/L	5.0	5		03/17/23 18:45	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	5		03/17/23 18:45	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	5		03/17/23 18:45	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		03/17/23 18:45	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	5		03/17/23 18:45	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/17/23 18:45	106-93-4		
Dibromomethane	ND	ug/L	5.0	5		03/17/23 18:45	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	5		03/17/23 18:45	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	5		03/17/23 18:45	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	5		03/17/23 18:45	106-46-7		
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/17/23 18:45	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	5		03/17/23 18:45	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	5		03/17/23 18:45	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	5		03/17/23 18:45	75-35-4		
cis-1,2-Dichloroethene	462	ug/L	5.0	5		03/22/23 23:59	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		03/17/23 18:45	156-60-5		
Dichlorofluoromethane	ND	ug/L	5.0	5		03/17/23 18:45	75-43-4		
1,2-Dichloropropane	ND	ug/L	5.0	5		03/17/23 18:45	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	5		03/17/23 18:45	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	5		03/17/23 18:45	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	5		03/17/23 18:45	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		03/17/23 18:45	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		03/17/23 18:45	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		03/17/23 18:45	60-29-7		
Ethylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		03/17/23 18:45	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		03/17/23 18:45	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	5		03/17/23 18:45	99-87-6		
Methylene Chloride	ND	ug/L	5.0	5		03/17/23 18:45	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		03/17/23 18:45	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW7: G031323		Lab ID: 10645984010		Collected: 03/13/23 16:45		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	5.0	5		03/17/23 18:45	1634-04-4		
Naphthalene	ND	ug/L	5.0	5		03/17/23 18:45	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	103-65-1		
Styrene	ND	ug/L	5.0	5		03/17/23 18:45	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/17/23 18:45	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/17/23 18:45	79-34-5		
Tetrachloroethene	15.0	ug/L	5.0	5		03/22/23 23:59	127-18-4		
Tetrahydrofuran	ND	ug/L	50.0	5		03/17/23 18:45	109-99-9		
Toluene	ND	ug/L	5.0	5		03/17/23 18:45	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		03/17/23 18:45	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		03/17/23 18:45	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	5		03/17/23 18:45	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/17/23 18:45	79-00-5		
Trichloroethene	126	ug/L	5.0	5		03/17/23 18:45	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	5		03/17/23 18:45	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	12.5	5		03/17/23 18:45	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		03/17/23 18:45	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		03/17/23 18:45	108-67-8		
Vinyl chloride	ND	ug/L	5.0	5		03/17/23 18:45	75-01-4		
Xylene (Total)	ND	ug/L	15.0	5		03/17/23 18:45	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	5		03/17/23 18:45	179601-23-1		
o-Xylene	ND	ug/L	5.0	5		03/17/23 18:45	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	5		03/17/23 18:45	2199-69-1	D4	
4-Bromofluorobenzene (S)	100	%.	75-125	5		03/17/23 18:45	460-00-4		
Toluene-d8 (S)	100	%.	75-125	5		03/17/23 18:45	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW9: G031023		Lab ID: 10645984011		Collected: 03/10/23 16:00		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 15:32	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 15:32	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 15:32	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 15:32	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 15:32	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 15:32	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 15:32	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 15:32	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 15:32	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 15:32	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 15:32	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 15:32	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 15:32	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 15:32	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:32	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 15:32	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 15:32	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 15:32	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 15:32	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 15:32	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:32	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:32	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:32	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 15:32	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:32	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 15:32	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:32	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:32	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 15:32	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:32	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:32	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:32	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 15:32	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:32	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:32	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 15:32	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 15:32	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 15:32	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 15:32	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 15:32	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 15:32	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 15:32	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW9: G031023		Lab ID: 10645984011		Collected: 03/10/23 16:00		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 15:32	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 15:32	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 15:32	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:32	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 15:32	79-34-5		
Tetrachloroethene	1.5	ug/L	1.0	1		03/17/23 15:32	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 15:32	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 15:32	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:32	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 15:32	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:32	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 15:32	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 15:32	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 15:32	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 15:32	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 15:32	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 15:32	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 15:32	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 15:32	1330-20-7		
m&p- Xylene	ND	ug/L	2.0	1		03/17/23 15:32	179601-23-1		
o- Xylene	ND	ug/L	1.0	1		03/17/23 15:32	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 15:32	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 15:32	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		03/17/23 15:32	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW11: G031423		Lab ID: 10645984012		Collected: 03/14/23 10:27		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	50.0	5		03/17/23 19:01	67-64-1		
Allyl chloride	ND	ug/L	12.5	5		03/17/23 19:01	107-05-1		
Benzene	ND	ug/L	5.0	5		03/17/23 19:01	71-43-2		
Bromobenzene	ND	ug/L	5.0	5		03/17/23 19:01	108-86-1		
Bromochloromethane	ND	ug/L	5.0	5		03/17/23 19:01	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	5		03/17/23 19:01	75-27-4		
Bromoform	ND	ug/L	5.0	5		03/17/23 19:01	75-25-2		
Bromomethane	ND	ug/L	12.5	5		03/17/23 19:01	74-83-9		
2-Butanone (MEK)	ND	ug/L	50.0	5		03/17/23 19:01	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	98-06-6		
Carbon tetrachloride	ND	ug/L	5.0	5		03/17/23 19:01	56-23-5		
Chlorobenzene	ND	ug/L	5.0	5		03/17/23 19:01	108-90-7		
Chloroethane	ND	ug/L	5.0	5		03/17/23 19:01	75-00-3		
Chloroform	ND	ug/L	5.0	5		03/17/23 19:01	67-66-3		
Chloromethane	ND	ug/L	5.0	5		03/17/23 19:01	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	5		03/17/23 19:01	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	5		03/17/23 19:01	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		03/17/23 19:01	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	5		03/17/23 19:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/17/23 19:01	106-93-4		
Dibromomethane	ND	ug/L	5.0	5		03/17/23 19:01	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	5		03/17/23 19:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	5		03/17/23 19:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	5		03/17/23 19:01	106-46-7		
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/17/23 19:01	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	5		03/17/23 19:01	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	5		03/17/23 19:01	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	5		03/17/23 19:01	75-35-4		
cis-1,2-Dichloroethene	34.2	ug/L	5.0	5		03/23/23 00:15	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		03/17/23 19:01	156-60-5		
Dichlorofluoromethane	ND	ug/L	5.0	5		03/17/23 19:01	75-43-4		
1,2-Dichloropropane	ND	ug/L	5.0	5		03/17/23 19:01	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	5		03/17/23 19:01	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	5		03/17/23 19:01	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	5		03/17/23 19:01	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		03/17/23 19:01	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		03/17/23 19:01	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		03/17/23 19:01	60-29-7		
Ethylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		03/17/23 19:01	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		03/17/23 19:01	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	5		03/17/23 19:01	99-87-6		
Methylene Chloride	ND	ug/L	5.0	5		03/17/23 19:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		03/17/23 19:01	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW11: G031423		Lab ID: 10645984012		Collected: 03/14/23 10:27		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	5.0	5		03/17/23 19:01	1634-04-4		
Naphthalene	ND	ug/L	5.0	5		03/17/23 19:01	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	103-65-1		
Styrene	ND	ug/L	5.0	5		03/17/23 19:01	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/17/23 19:01	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/17/23 19:01	79-34-5		
Tetrachloroethene	481	ug/L	5.0	5		03/17/23 19:01	127-18-4		
Tetrahydrofuran	ND	ug/L	50.0	5		03/17/23 19:01	109-99-9		
Toluene	ND	ug/L	5.0	5		03/17/23 19:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		03/17/23 19:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		03/17/23 19:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	5		03/17/23 19:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/17/23 19:01	79-00-5		
Trichloroethene	20.3	ug/L	5.0	5		03/17/23 19:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	5		03/17/23 19:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	12.5	5		03/17/23 19:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		03/17/23 19:01	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		03/17/23 19:01	108-67-8		
Vinyl chloride	ND	ug/L	5.0	5		03/17/23 19:01	75-01-4		
Xylene (Total)	ND	ug/L	15.0	5		03/17/23 19:01	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	5		03/17/23 19:01	179601-23-1		
o-Xylene	ND	ug/L	5.0	5		03/17/23 19:01	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	5		03/17/23 19:01	2199-69-1	D4	
4-Bromofluorobenzene (S)	99	%.	75-125	5		03/17/23 19:01	460-00-4		
Toluene-d8 (S)	99	%.	75-125	5		03/17/23 19:01	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW15: G031423		Lab ID: 10645984013		Collected: 03/13/23 11:45		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 17:41	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 17:41	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 17:41	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 17:41	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 17:41	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 17:41	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 17:41	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 17:41	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 17:41	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 17:41	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 17:41	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 17:41	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 17:41	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 17:41	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:41	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:41	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 17:41	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 17:41	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 17:41	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 17:41	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:41	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:41	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:41	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 17:41	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:41	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:41	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:41	75-35-4		
cis-1,2-Dichloroethene	2.7	ug/L	1.0	1		03/17/23 17:41	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:41	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:41	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:41	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:41	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:41	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:41	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:41	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:41	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 17:41	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 17:41	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 17:41	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 17:41	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 17:41	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 17:41	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW15: G031423		Lab ID: 10645984013		Collected: 03/13/23 11:45		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 17:41	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 17:41	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 17:41	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:41	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:41	79-34-5		
Tetrachloroethene	966	ug/L	10.0	10		03/23/23 00:31	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 17:41	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 17:41	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:41	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:41	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:41	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:41	79-00-5		
Trichloroethene	21.7	ug/L	1.0	1		03/17/23 17:41	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:41	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/23 17:41	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 17:41	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:41	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 17:41	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 17:41	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 17:41	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 17:41	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 17:41	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 17:41	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 17:41	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW15D: G031123		Lab ID: 10645984014		Collected: 03/14/23 15:54		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 17:57	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 17:57	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 17:57	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 17:57	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 17:57	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 17:57	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 17:57	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 17:57	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 17:57	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 17:57	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 17:57	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 17:57	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 17:57	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 17:57	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:57	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 17:57	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 17:57	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 17:57	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 17:57	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 17:57	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:57	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:57	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:57	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 17:57	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:57	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 17:57	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:57	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:57	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 17:57	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:57	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:57	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:57	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 17:57	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:57	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:57	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 17:57	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 17:57	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 17:57	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 17:57	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 17:57	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 17:57	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 17:57	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW15D: G031123		Lab ID: 10645984014		Collected: 03/14/23 15:54		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 17:57	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 17:57	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 17:57	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:57	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 17:57	79-34-5		
Tetrachloroethene	17.7	ug/L	1.0	1		03/23/23 13:31	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 17:57	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 17:57	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:57	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 17:57	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:57	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 17:57	79-00-5		
Trichloroethene	2.6	ug/L	1.0	1		03/17/23 17:57	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 17:57	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 17:57	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 17:57	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 17:57	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 17:57	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 17:57	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 17:57	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 17:57	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 17:57	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 17:57	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 17:57	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW23: G031327		Lab ID: 10645984015		Collected: 03/14/23 10:04		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 18:13	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 18:13	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 18:13	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 18:13	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 18:13	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 18:13	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 18:13	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 18:13	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 18:13	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 18:13	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 18:13	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 18:13	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 18:13	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 18:13	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 18:13	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 18:13	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 18:13	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 18:13	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 18:13	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 18:13	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:13	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:13	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:13	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 18:13	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 18:13	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 18:13	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 18:13	75-35-4		
cis-1,2-Dichloroethene	39.8	ug/L	1.0	1		03/17/23 18:13	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 18:13	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 18:13	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 18:13	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 18:13	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 18:13	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 18:13	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 18:13	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 18:13	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 18:13	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 18:13	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 18:13	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 18:13	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 18:13	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 18:13	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW23: G031327		Lab ID: 10645984015		Collected: 03/14/23 10:04		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 18:13	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 18:13	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 18:13	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 18:13	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 18:13	79-34-5		
Tetrachloroethene	196	ug/L	2.0	2		03/22/23 23:28	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 18:13	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 18:13	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:13	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 18:13	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 18:13	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 18:13	79-00-5		
Trichloroethene	11.8	ug/L	1.0	1		03/17/23 18:13	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 18:13	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 18:13	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 18:13	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 18:13	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 18:13	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 18:13	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 18:13	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 18:13	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		03/17/23 18:13	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		03/17/23 18:13	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		03/17/23 18:13	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW101: G031223		Lab ID: 10645984016		Collected: 03/12/23 14:45		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 16:53	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 16:53	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 16:53	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 16:53	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 16:53	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 16:53	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 16:53	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 16:53	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 16:53	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 16:53	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 16:53	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 16:53	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 16:53	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 16:53	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:53	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:53	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 16:53	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 16:53	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 16:53	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 16:53	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:53	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:53	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:53	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 16:53	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:53	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:53	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:53	75-35-4		
cis-1,2-Dichloroethene	25.5	ug/L	1.0	1		03/17/23 16:53	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:53	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:53	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:53	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:53	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:53	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:53	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:53	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:53	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 16:53	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 16:53	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 16:53	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 16:53	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 16:53	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 16:53	108-10-1		

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW101: G031223		Lab ID: 10645984016		Collected: 03/12/23 14:45		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 16:53	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 16:53	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 16:53	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:53	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:53	79-34-5		
Tetrachloroethene	155	ug/L	1.0	1		03/17/23 16:53	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 16:53	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 16:53	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:53	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:53	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:53	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:53	79-00-5		
Trichloroethene	6.6	ug/L	1.0	1		03/17/23 16:53	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:53	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/23 16:53	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 16:53	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:53	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 16:53	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 16:53	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 16:53	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 16:53	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		03/17/23 16:53	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		03/17/23 16:53	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 16:53	2037-26-5		

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: Trip Blank		Lab ID: 10645984017	Collected: 03/10/23 00:00	Received: 03/16/23 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Acetone	ND	ug/L	10.0	1		03/17/23 14:44	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		03/17/23 14:44	107-05-1	
Benzene	ND	ug/L	1.0	1		03/17/23 14:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/23 14:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 14:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 14:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/23 14:44	75-25-2	
Bromomethane	ND	ug/L	2.5	1		03/17/23 14:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 14:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 14:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 14:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/23 14:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/23 14:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/23 14:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 14:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 14:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 14:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 14:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 14:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/23 14:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 14:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 14:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 14:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 14:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 14:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 14:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 14:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 14:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 14:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 14:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 14:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 14:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 14:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 14:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 14:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 14:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 14:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 14:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 14:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 14:44	99-87-6	
Methylene Chloride	3.7	ug/L	1.0	1		03/17/23 14:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 14:44	108-10-1	

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: Trip Blank		Lab ID: 10645984017		Collected: 03/10/23 00:00		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 14:44	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 14:44	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 14:44	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 14:44	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 14:44	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		03/17/23 14:44	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 14:44	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 14:44	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 14:44	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 14:44	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/23 14:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/23 14:44	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 14:44	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 14:44	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/23 14:44	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 14:44	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 14:44	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 14:44	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 14:44	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 14:44	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 14:44	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		03/17/23 14:44	2199-69-1		
4-Bromofluorobenzene (S)	97	%.	75-125	1		03/17/23 14:44	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		03/17/23 14:44	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAK52510C

Pace Project No.: 10645984

Sample: MW13: G031123		Lab ID: 10645984018		Collected: 03/11/23 18:10		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		03/17/23 16:04	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		03/17/23 16:04	107-05-1		
Benzene	ND	ug/L	1.0	1		03/17/23 16:04	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		03/17/23 16:04	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		03/17/23 16:04	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		03/17/23 16:04	75-27-4		
Bromoform	ND	ug/L	1.0	1		03/17/23 16:04	75-25-2		
Bromomethane	ND	ug/L	2.5	1		03/17/23 16:04	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/23 16:04	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/23 16:04	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		03/17/23 16:04	108-90-7		
Chloroethane	ND	ug/L	1.0	1		03/17/23 16:04	75-00-3		
Chloroform	ND	ug/L	1.0	1		03/17/23 16:04	67-66-3		
Chloromethane	ND	ug/L	1.0	1		03/17/23 16:04	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:04	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/23 16:04	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/23 16:04	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		03/17/23 16:04	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/23 16:04	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		03/17/23 16:04	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:04	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:04	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:04	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/23 16:04	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:04	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/23 16:04	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:04	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:04	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/23 16:04	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:04	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:04	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:04	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/23 16:04	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:04	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:04	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/23 16:04	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		03/17/23 16:04	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/23 16:04	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/23 16:04	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/23 16:04	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		03/17/23 16:04	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/23 16:04	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAK52510C
Pace Project No.: 10645984

Sample: MW13: G031123		Lab ID: 10645984018		Collected: 03/11/23 18:10		Received: 03/16/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/23 16:04	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		03/17/23 16:04	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	103-65-1		
Styrene	ND	ug/L	1.0	1		03/17/23 16:04	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:04	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		03/17/23 16:04	79-34-5		
Tetrachloroethene	37.2	ug/L	1.0	1		03/17/23 16:04	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		03/17/23 16:04	109-99-9		
Toluene	ND	ug/L	1.0	1		03/17/23 16:04	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:04	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		03/17/23 16:04	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:04	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		03/17/23 16:04	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		03/17/23 16:04	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/23 16:04	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		03/17/23 16:04	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		03/17/23 16:04	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		03/17/23 16:04	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		03/17/23 16:04	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		03/17/23 16:04	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		03/17/23 16:04	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		03/17/23 16:04	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		03/17/23 16:04	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		03/17/23 16:04	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		03/17/23 16:04	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAK52510C
Pace Project No.: 10645984

QC Batch:	871686	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10645984001, 10645984002, 10645984003, 10645984004, 10645984005, 10645984006, 10645984007, 10645984008, 10645984009, 10645984010, 10645984011, 10645984012, 10645984013, 10645984014, 10645984015, 10645984016, 10645984017, 10645984018

METHOD BLANK:	4597055	Matrix:	Water
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Associated Lab Samples: 10645984001, 10645984002, 10645984003, 10645984004, 10645984005, 10645984006, 10645984007, 10645984008, 10645984009, 10645984010, 10645984011, 10645984012, 10645984013, 10645984014, 10645984015, 10645984016, 10645984017, 10645984018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/17/23 14:28	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/17/23 14:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/17/23 14:28	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/17/23 14:28	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	03/17/23 14:28	
1,1-Dichloroethane	ug/L	ND	1.0	03/17/23 14:28	
1,1-Dichloroethene	ug/L	ND	1.0	03/17/23 14:28	
1,1-Dichloropropene	ug/L	ND	1.0	03/17/23 14:28	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/17/23 14:28	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/17/23 14:28	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/17/23 14:28	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/17/23 14:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/17/23 14:28	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/17/23 14:28	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/17/23 14:28	
1,2-Dichloroethane	ug/L	ND	1.0	03/17/23 14:28	
1,2-Dichloropropane	ug/L	ND	1.0	03/17/23 14:28	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/17/23 14:28	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/17/23 14:28	
1,3-Dichloropropane	ug/L	ND	1.0	03/17/23 14:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/17/23 14:28	
2,2-Dichloropropane	ug/L	ND	1.0	03/17/23 14:28	
2-Butanone (MEK)	ug/L	ND	10.0	03/17/23 14:28	
2-Chlorotoluene	ug/L	ND	1.0	03/17/23 14:28	
4-Chlorotoluene	ug/L	ND	1.0	03/17/23 14:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/17/23 14:28	
Acetone	ug/L	ND	10.0	03/17/23 14:28	
Allyl chloride	ug/L	ND	2.5	03/17/23 14:28	
Benzene	ug/L	ND	1.0	03/17/23 14:28	
Bromobenzene	ug/L	ND	1.0	03/17/23 14:28	
Bromochloromethane	ug/L	ND	1.0	03/17/23 14:28	
Bromodichloromethane	ug/L	ND	1.0	03/17/23 14:28	
Bromoform	ug/L	ND	1.0	03/17/23 14:28	
Bromomethane	ug/L	ND	2.5	03/17/23 14:28	
Carbon tetrachloride	ug/L	ND	1.0	03/17/23 14:28	
Chlorobenzene	ug/L	ND	1.0	03/17/23 14:28	
Chloroethane	ug/L	ND	1.0	03/17/23 14:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAK52510C
Pace Project No.: 10645984

METHOD BLANK: 4597055

Matrix: Water

Associated Lab Samples: 10645984001, 10645984002, 10645984003, 10645984004, 10645984005, 10645984006, 10645984007, 10645984008, 10645984009, 10645984010, 10645984011, 10645984012, 10645984013, 10645984014, 10645984015, 10645984016, 10645984017, 10645984018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	03/17/23 14:28	
Chloromethane	ug/L	ND	1.0	03/17/23 14:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/17/23 14:28	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/17/23 14:28	
Dibromochloromethane	ug/L	ND	1.0	03/17/23 14:28	
Dibromomethane	ug/L	ND	1.0	03/17/23 14:28	
Dichlorodifluoromethane	ug/L	ND	1.0	03/17/23 14:28	
Dichlorofluoromethane	ug/L	ND	1.0	03/17/23 14:28	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	03/17/23 14:28	
Ethylbenzene	ug/L	ND	1.0	03/17/23 14:28	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/17/23 14:28	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/17/23 14:28	
m&p-Xylene	ug/L	ND	2.0	03/17/23 14:28	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/17/23 14:28	
Methylene Chloride	ug/L	ND	1.0	03/17/23 14:28	
n-Butylbenzene	ug/L	ND	1.0	03/17/23 14:28	
n-Propylbenzene	ug/L	ND	1.0	03/17/23 14:28	
Naphthalene	ug/L	ND	1.0	03/17/23 14:28	
o-Xylene	ug/L	ND	1.0	03/17/23 14:28	
p-Isopropyltoluene	ug/L	ND	1.0	03/17/23 14:28	
sec-Butylbenzene	ug/L	ND	1.0	03/17/23 14:28	
Styrene	ug/L	ND	1.0	03/17/23 14:28	
tert-Butylbenzene	ug/L	ND	1.0	03/17/23 14:28	
Tetrachloroethene	ug/L	ND	1.0	03/17/23 14:28	
Tetrahydrofuran	ug/L	ND	10.0	03/17/23 14:28	
Toluene	ug/L	ND	1.0	03/17/23 14:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/17/23 14:28	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/17/23 14:28	
Trichloroethene	ug/L	ND	1.0	03/17/23 14:28	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/23 14:28	
Vinyl chloride	ug/L	ND	1.0	03/17/23 14:28	
Xylene (Total)	ug/L	ND	3.0	03/17/23 14:28	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	03/17/23 14:28	
4-Bromofluorobenzene (S)	%	98	75-125	03/17/23 14:28	
Toluene-d8 (S)	%	98	75-125	03/17/23 14:28	

LABORATORY CONTROL SAMPLE: 4597056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	105	75-125	
1,1,1-Trichloroethane	ug/L	20	19.1	96	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	22.2	111	71-125	

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QUALITY CONTROL DATA

Project: WAK52510C

Pace Project No.: 10645984

LABORATORY CONTROL SAMPLE: 4597056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichloroethane	ug/L	20	19.7	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.0	100	69-125	
1,1-Dichloroethane	ug/L	20	19.7	99	75-125	
1,1-Dichloroethene	ug/L	20	18.5	92	69-125	
1,1-Dichloropropene	ug/L	20	18.7	93	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.8	94	70-131	
1,2,3-Trichloropropane	ug/L	20	20.8	104	73-125	
1,2,4-Trichlorobenzene	ug/L	20	19.0	95	75-125	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	20.1	100	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	20.3	101	75-125	
1,2-Dichlorobenzene	ug/L	20	19.7	98	75-125	
1,2-Dichloroethane	ug/L	20	20.2	101	75-125	
1,2-Dichloropropane	ug/L	20	19.4	97	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	75-125	
1,3-Dichlorobenzene	ug/L	20	19.5	98	75-125	
1,3-Dichloropropane	ug/L	20	20.1	100	75-125	
1,4-Dichlorobenzene	ug/L	20	19.4	97	75-125	
2,2-Dichloropropane	ug/L	20	17.7	88	65-125	
2-Butanone (MEK)	ug/L	100	85.5	85	61-131	
2-Chlorotoluene	ug/L	20	19.5	98	75-125	
4-Chlorotoluene	ug/L	20	20.2	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	62-142	
Acetone	ug/L	100	87.0	87	57-137	
Allyl chloride	ug/L	20	18.4	92	73-125	
Benzene	ug/L	20	18.5	93	75-125	
Bromobenzene	ug/L	20	18.8	94	75-125	
Bromochloromethane	ug/L	20	18.5	93	75-125	
Bromodichloromethane	ug/L	20	20.0	100	75-125	
Bromoform	ug/L	20	19.9	100	75-134	
Bromomethane	ug/L	20	15.1	75	32-150	
Carbon tetrachloride	ug/L	20	18.9	95	73-126	
Chlorobenzene	ug/L	20	18.7	94	75-125	
Chloroethane	ug/L	20	19.6	98	70-125	
Chloroform	ug/L	20	18.0	90	75-125	
Chloromethane	ug/L	20	18.1	90	65-125	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.4	102	75-125	
Dibromochloromethane	ug/L	20	21.0	105	75-125	
Dibromomethane	ug/L	20	18.6	93	75-125	
Dichlorodifluoromethane	ug/L	20	16.5	82	65-135	
Dichlorofluoromethane	ug/L	20	20.0	100	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	20.3	102	75-125	
Ethylbenzene	ug/L	20	19.0	95	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.7	99	63-128	
Isopropylbenzene (Cumene)	ug/L	20	18.6	93	75-125	
m&p-Xylene	ug/L	40	37.7	94	75-125	

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QUALITY CONTROL DATA

Project: WAK52510C

Pace Project No.: 10645984

LABORATORY CONTROL SAMPLE: 4597056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	ug/L	20	18.3	92	75-125	
Methylene Chloride	ug/L	20	20.2	101	72-125	
n-Butylbenzene	ug/L	20	19.9	100	68-125	
n-Propylbenzene	ug/L	20	20.1	100	74-125	
Naphthalene	ug/L	20	19.4	97	67-140	
o-Xylene	ug/L	20	19.1	95	75-125	
p-Isopropyltoluene	ug/L	20	20.3	101	75-126	
sec-Butylbenzene	ug/L	20	20.1	100	75-126	
Styrene	ug/L	20	19.7	99	75-139	
tert-Butylbenzene	ug/L	20	19.9	100	75-125	
Tetrachloroethene	ug/L	20	18.7	93	70-125	
Tetrahydrofuran	ug/L	100	90.8	91	63-145	
Toluene	ug/L	20	17.5	88	74-125	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	75-125	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	75-127	
Trichloroethene	ug/L	20	17.7	89	74-125	
Trichlorofluoromethane	ug/L	20	18.3	92	72-125	
Vinyl chloride	ug/L	20	19.5	97	66-125	
Xylene (Total)	ug/L	60	56.8	95	75-125	
1,2-Dichlorobenzene-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4597057 4597058

Parameter	Units	10645984011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.0	21.2	100	106	75-125	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.4	18.3	87	91	70-133	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	22.0	107	110	71-125	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	19.3	95	96	75-125	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	16.1	18.0	81	90	50-150	11	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.7	19.2	93	96	71-125	3	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.0	17.4	85	87	60-136	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	17.5	18.0	88	90	70-134	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.6	18.6	88	93	66-131	6	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.9	20.2	99	101	73-125	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.6	18.3	88	92	66-125	4	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.2	19.6	96	98	61-143	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.6	21.7	103	108	61-137	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.7	20.0	98	100	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.6	19.0	93	95	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.3	19.4	96	97	71-133	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.0	19.1	95	96	75-125	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAK52510C

Pace Project No.: 10645984

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			4597057	4597058								
Parameter	Units	10645984011	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.7	18.9	93	95	70-134	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.7	19.0	93	95	74-125	2	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.3	19.5	97	97	75-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.5	18.6	92	93	75-125	1	30	
2,2-Dichloropropane	ug/L	ND	20	20	15.4	15.9	77	79	52-140	3	30	
2-Butanone (MEK)	ug/L	ND	100	100	87.9	87.6	88	88	57-142	0	30	
2-Chlorotoluene	ug/L	ND	20	20	18.6	19.0	93	95	72-125	2	30	
4-Chlorotoluene	ug/L	ND	20	20	19.2	19.3	96	97	69-128	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	106	107	106	107	59-149	1	30	
Acetone	ug/L	ND	100	100	90.3	88.8	90	89	57-137	2	30	
Allyl chloride	ug/L	ND	20	20	17.4	18.7	87	93	47-139	7	30	
Benzene	ug/L	ND	20	20	17.8	18.0	89	90	66-127	1	30	
Bromobenzene	ug/L	ND	20	20	18.0	18.7	90	94	74-125	4	30	
Bromochloromethane	ug/L	ND	20	20	17.5	17.9	87	90	69-126	3	30	
Bromodichloromethane	ug/L	ND	20	20	18.7	19.3	93	97	75-125	4	30	
Bromoform	ug/L	ND	20	20	19.0	19.7	95	98	66-134	3	30	
Bromomethane	ug/L	ND	20	20	12.2	15.5	61	77	30-150	24	30	
Carbon tetrachloride	ug/L	ND	20	20	16.8	18.7	84	93	73-135	11	30	
Chlorobenzene	ug/L	ND	20	20	18.1	18.5	90	93	75-125	2	30	
Chloroethane	ug/L	ND	20	20	18.4	18.6	92	93	54-143	1	30	
Chloroform	ug/L	ND	20	20	17.2	17.2	86	86	75-125	0	30	
Chloromethane	ug/L	ND	20	20	16.2	17.0	81	85	52-131	5	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.4	19.2	92	96	72-125	4	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.6	19.4	93	97	73-125	4	30	
Dibromochloromethane	ug/L	ND	20	20	20.2	20.5	101	103	73-125	2	30	
Dibromomethane	ug/L	ND	20	20	17.9	18.1	90	91	67-129	1	30	
Dichlorodifluoromethane	ug/L	ND	20	20	13.2	15.0	66	75	54-150	12	30	
Dichlorofluoromethane	ug/L	ND	20	20	18.0	18.5	90	93	63-136	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	19.1	18.6	96	93	70-125	3	30	
Ethylbenzene	ug/L	ND	20	20	18.3	18.6	91	93	74-128	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.8	18.2	84	91	54-133	8	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	17.7	18.5	88	92	75-129	4	30	
m&p-Xylene	ug/L	ND	40	40	36.5	37.5	91	94	70-131	3	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.7	18.0	89	90	65-132	1	30	
Methylene Chloride	ug/L	ND	20	20	19.5	19.7	98	98	67-125	1	30	
n-Butylbenzene	ug/L	ND	20	20	17.7	18.5	88	93	64-130	5	30	
n-Propylbenzene	ug/L	ND	20	20	18.7	19.2	94	96	72-127	2	30	
Naphthalene	ug/L	ND	20	20	19.2	19.8	96	99	61-150	3	30	
o-Xylene	ug/L	ND	20	20	18.6	18.9	93	95	75-127	2	30	
p-Isopropyltoluene	ug/L	ND	20	20	18.3	19.0	91	95	71-130	4	30	
sec-Butylbenzene	ug/L	ND	20	20	18.5	18.8	92	94	73-130	2	30	
Styrene	ug/L	ND	20	20	19.3	19.6	96	98	73-139	1	30	
tert-Butylbenzene	ug/L	ND	20	20	18.5	18.9	92	94	73-125	2	30	
Tetrachloroethene	ug/L	1.5	20	20	18.2	19.4	84	90	69-129	6	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAK52510C

Pace Project No.: 10645984

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4597057 4597058												
Parameter	Units	10645984011		MS	MSD	MS		MS	MSD	% Rec	Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Tetrahydrofuran	ug/L	ND	100	100	100	90.8	91.1	91	91	63-145	0	30
Toluene	ug/L	ND	20	20	20	16.9	17.5	85	87	66-125	3	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	17.4	17.8	87	89	69-126	2	30
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	19.3	20.1	97	101	75-127	4	30
Trichloroethene	ug/L	ND	20	20	20	17.0	17.2	85	86	69-127	1	30
Trichlorofluoromethane	ug/L	ND	20	20	20	14.8	16.8	74	84	58-150	13	30
Vinyl chloride	ug/L	ND	20	20	20	16.7	17.5	83	88	54-146	5	30
Xylene (Total)	ug/L	ND	60	60	60	55.1	56.4	92	94	75-126	2	30
1,2-Dichlorobenzene-d4 (S)	%							99	99	75-125		
4-Bromofluorobenzene (S)	%							100	99	75-125		
Toluene-d8 (S)	%							98	99	75-125		

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QUALITY CONTROL DATA

Project: WAK52510C
Pace Project No.: 10645984

QC Batch:	872104	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10645984001, 10645984005, 10645984006, 10645984010, 10645984012, 10645984013, 10645984015

METHOD BLANK: 4599367 Matrix: Water
Associated Lab Samples: 10645984001, 10645984005, 10645984006, 10645984010, 10645984012, 10645984013, 10645984015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	03/22/23 21:54	
Acetone	ug/L	ND	10.0	03/22/23 21:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/22/23 21:54	
Tetrachloroethene	ug/L	ND	1.0	03/22/23 21:54	
1,2-Dichlorobenzene-d4 (S)	%	98	75-125	03/22/23 21:54	
4-Bromofluorobenzene (S)	%	98	75-125	03/22/23 21:54	
Toluene-d8 (S)	%	101	75-125	03/22/23 21:54	

LABORATORY CONTROL SAMPLE & LCSD: 4599368			4599369							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	100	88.0	86.3	88	86	61-131	2	20	
Acetone	ug/L	100	87.6	87.2	88	87	57-137	0	20	
cis-1,2-Dichloroethene	ug/L	20	18.5	18.6	93	93	75-125	0	20	
Tetrachloroethene	ug/L	20	19.8	19.5	99	97	70-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%				97	99	75-125			
4-Bromofluorobenzene (S)	%				97	96	75-125			
Toluene-d8 (S)	%				95	95	75-125			

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QUALITY CONTROL DATA

Project: WAK52510C

Pace Project No.: 10645984

QC Batch: 872502

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10645984014

METHOD BLANK: 4601503

Matrix: Water

Associated Lab Samples: 10645984014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	1.0	03/23/23 13:15	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	03/23/23 13:15	
4-Bromofluorobenzene (S)	%.	97	75-125	03/23/23 13:15	
Toluene-d8 (S)	%.	101	75-125	03/23/23 13:15	

LABORATORY CONTROL SAMPLE & LCSD: 4601504

4601505

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	20	19.5	19.9	97	100	70-125	2	20	
1,2-Dichlorobenzene-d4 (S)	%.				101	100	75-125			
4-Bromofluorobenzene (S)	%.				99	99	75-125			
Toluene-d8 (S)	%.				103	103	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WAK52510C

Pace Project No.: 10645984

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 872104

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] Vinyl acetate did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

[2] The continuing calibration verification was below the method acceptance limit for bromomethane, dichlorofluoromethane, and iodomethane. The analytes were not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 872502

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1M Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.

D4 Sample was diluted due to the presence of high levels of target analytes.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAK52510C

Pace Project No.: 10645984

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10645984001	FD1: G031423	EPA 8260D	871686		
10645984001	FD1: G031423	EPA 8260D	872104		
10645984002	EB1: W031023	EPA 8260D	871686		
10645984003	EB2: W031423	EPA 8260D	871686		
10645984004	MW1: G031423	EPA 8260D	871686		
10645984005	MW2R: G031323	EPA 8260D	871686		
10645984005	MW2R: G031323	EPA 8260D	872104		
10645984006	MW3R: G031323	EPA 8260D	871686		
10645984006	MW3R: G031323	EPA 8260D	872104		
10645984007	MW4: G031123	EPA 8260D	871686		
10645984008	MW5: G031223	EPA 8260D	871686		
10645984009	MW6: G031223	EPA 8260D	871686		
10645984010	MW7: G031323	EPA 8260D	871686		
10645984010	MW7: G031323	EPA 8260D	872104		
10645984011	MW9: G031023	EPA 8260D	871686		
10645984012	MW11: G031423	EPA 8260D	871686		
10645984012	MW11: G031423	EPA 8260D	872104		
10645984013	MW15: G031423	EPA 8260D	871686		
10645984013	MW15: G031423	EPA 8260D	872104		
10645984014	MW15D: G031123	EPA 8260D	871686		
10645984014	MW15D: G031123	EPA 8260D	872502		
10645984015	MW23: G031327	EPA 8260D	871686		
10645984015	MW23: G031327	EPA 8260D	872104		
10645984016	MW101: G031223	EPA 8260D	871686		
10645984017	Trip Blank	EPA 8260D	871686		
10645984018	MW13: G031123	EPA 8260D	871686		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: The Elam Group	Billing Information: accounts payable@ elamusa.com
Address: 161 Lakewood Dr. Noblesville TN	
Report To: Jason Olund	Email To: jason-olund@elamusa.com
Copy To:	Site Collection Info/Address:

Customer: Project Name/Number:	State:	County/City:	Time Zone Collected:
WAIC52510C	WA	Seattle	[] PT [] MT [] CT [] ET

Phone: Email:	Site/Facility ID #:	Compliance Monitoring? [] Yes [] No
Collected By (print): <i>Jonathan Beeter</i>	Purchase Order #: Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature): <i>Jonathan Beeter</i>	Turnaround Date Required:	Immediately Packed on Ice: ☒ Yes [] No
Sample Disposal: ☒ Dispose as appropriate [] Return [] Archive: _____ [] Hold: _____	Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day ☒ 15 Day (Expedite Charges Apply)	Field Filtered (if applicable): [] Yes [] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
ED1: G031423	GW	Grab	—	—	—	—		3
EB1: W031023	W	—	3/6	1150				2
EB2: W031423	W	—	3/14	1210				2
MW1: G031423	GW	Grab	3/14	1023				2
MW2R: G031323	GW	Grab	3/13	1250				2
MW3R: G031323	GW	Grab	3/13	1140				2
MW4: G031423	GW	Grab	3/14	1230				2
MW5: G031423	GW	Grab	3/12	1053				2
MW6: G031223	GW	Grab	3/12	1247				2
MW7: G031323	GW	Grab	3/13	1645				2

Customer Remarks / Special Conditions / Possible Hazards: MS/MSD for MW9: G03	Type of Ice Used:	Wet	Blue	Dry	None
	Packing Material Used:				
	Radchem sample(s) screened (<500 cpm):	Y	N	NA	

Relinquished by/Company: (Signature) <i>[Signature]</i>	Date/Time: 3/15/23 1:26	Received by/Company: (Signature) <i>[Signature]</i>
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)

LAB USE ONLY- Affix Workorder/Login Label Here or List Date, Workorder Number, and

WO#: 10645984



10645984

ALL SHADE

Container Preservative Type

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line: 37235

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

vor

~~001~~
wz
~~w3~~
ay
af
~~wf~~
aw
~~af~~
~~wf~~
en

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2870509

Samples received via:					
FEDEX	UPS	Client	Courier	Pace	Courier

Date/Time:	MTJL LAB USE ONLY
------------	-------------------

3-16-23 8:15	Table #:
Date/Time:	Acctnum:
	Template:
	Prelogin:
Date/Time:	PM:
	PB:

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA
Therm ID#: TL
Cooler 1 Temp Upon Receipt: 0
Cooler 1 Therm Corr. Factor: -0.2
Cooler 1 Corrected Temp: 0
Comments: 5.6

Trip Blank Received:				Y	N	NA
HCL	MeOH	TSP	Other			

Non Conformance(s): YES / NO	Page: _____ of: _____
---------------------------------	--------------------------

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: The ELM Group

Address: Jason 161 Lakeview Drive.

Report To: Jason Olson

Copy To:

Customer Project Name/Number:
WAK52510C

Phone: (888) 510-3526	Site/Facility ID #:
Email:	

Collected By (print): T. Decker	Purchase Order #: Quote #:
------------------------------------	-------------------------------

<u>Jan Deeter</u>	Quote #:
Collected By (signature):	Turnaround Date Required:

Just Dev	
Sample Disposal:	Reck:

Sample Disposal: ☒ Dispose as appropriate ☐ Return
☐ Archive: _____
☐ Hold: _____

Rush: ☐ Same Day
☐ 2 Day ☐ 3 Day
 (Expedite Charge)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

[illegible]

Customer Remarks / Special Conditions / Possible Hazards:

MS/MSD for MW9

Relinquished by/Company: (Signature) 

Relinquished by/Company: (Signature)	Date:
--------------------------------------	-------

520

Relinquished by/Company: (Signature)	Date:
--------------------------------------	-------

Billing Information:
account payable@
elumsa.com

Email To: jason.dond@elamusa.com

Site Collection Info/Address:	
-------------------------------	--

State: WA County/City: Seattle Time Zone Collected: ☐ PT ☐ MT ☐ CT ☐ ET

	Compliance Monitoring? ☐ Yes ☐ No
--	--

	DW PWS ID #:
	DW Location Code:

	DW Location Code:
ed:	Immediately Packed on Ice:

☒ Yes ☐ No

Field Filtered (if applicable):
☐ Yes ☒ No
 Analysis: _____

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **								Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line: 37235
										Lab Sample Receipt Checklist:

	Custody Seals Present/Intact	Y N NA
	Custody Signatures Present	Y N NA
	Collector Signature Present	Y N NA
	Bottles Intact	Y N NA
	Correct Bottles	Y N NA
	Sufficient Volume	Y N NA
	Samples Received on Ice	Y N NA
	VOA - Headspace Acceptable	Y N NA
	USDA Regulated Soils	Y N NA
	Samples in Holding Time	Y N NA
	Residual Chlorine Present	Y N NA
	Cl Strips:	
	Sample pH Acceptable	Y N NA
	pH Strips:	
	Sulfide Present	Y N NA
	Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

SHORT HOLDS PRESENT (<72 hours):	Y	N	N/A
----------------------------------	---	---	-----

Lab Tracking #: 2870508

Samples received via:				
FEDEX	UPS	Client	Courier	Pace C

Date/Time:	MTJL LAB USE ONLY
1-16-13	

3-16-23 8:50	Table #:
Date/Time:	Acctnum:

Date, time:	Template:
	Prelogin:

Date/Time:	PM:
	PP

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA
Therm ID#: T1
Cooler 1 Temp Upon Receipt: _____ °C
Cooler 1 Therm Corr. Factor: TD: 2
Cooler 1 Corrected Temp: _____ °C
Comments: 56

Trip Blank Received:		Y	N	NA
HCL	MeOH	TSP	Other	

Non Conformance(s): YES / NO	Page: _____ of: _____
---------------------------------	--------------------------

Effective Date: 11/16/2022

Sample Condition
Upon Receipt

Client Name:

The Elam Group

Project #:

WO#: 10645984

PM: RMJ

Due Date: 03/30/23

CLIENT: ELAM Group

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client
☐ Pace ☐ Speedee ☐ CommercialTracking Number: 59237144 4290☐ See Exceptions
ENV-FRM-MIN4-0142Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ NoBiological Tissue Frozen? ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ OtherTemp Blank? ☐ Yes ☒ NoThermometer: ☒ T1 (0461) ☐ T2 (1336) ☐ T3 (0459) ☐ T4 (0254) ☐ T5 (0178)Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252/1710☐ MeltedDid Samples Originate in West Virginia? ☐ Yes ☒ NoWere All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6 °C

Cooler temp Read w/Temp Blank: _____ °C

Average Corrected Temp

(no temp blank only): 5.0 (6) EC 3-16-23Correction Factor: +0.2

Cooler Temp Corrected w/temp blank: _____ °C

☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 ContainerUSDA Regulated Soil: ☒ N/A (water) sample/other: _____)Date/Initials of Person Examining Contents: EC 3-16-23Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one):	Chain of Custody Present and Filled Out?	Chain of Custody Relinquished?	Sampler Name and/or Signature on COC?	Samples Arrived within Hold Time?	Short Hold Time Analysis (<72 hr)?	Rush Turn Around Time Requested?	Sufficient Sample Volume?	Correct Containers Used?	-Pace Containers Used?	Containers Intact?	Field Filtered Volume Received for Dissolved Tests?	Is sufficient information available to reconcile the samples to the COC?	Matrix:	All containers needing acid/base preservation have been checked?	All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	Exceptions: (VOA) Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	Headspace in Methyl Mercury Container?	Extra labels present on soil VOA or WIDRO containers?	Headspace in VOA Vials (greater than 6mm)?	3 Trip Blanks Present?	Trip Blank Custody Seals Present?
☐ Duluth ☒ Minneapolis ☐ Virginia	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No ☐ N/A	☒ Yes ☐ No	☐ Yes ☒ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No ☐ N/A	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☐ No ☒ N/A	☒ Yes ☐ No	☒ Water ☐ Soil ☐ Oil ☐ Other	☐ Yes ☐ No ☒ N/A	☐ Yes ☐ No ☒ N/A	☒ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☒ N/A	☐ Yes ☐ No ☒ N/A	☒ Yes ☐ No ☐ N/A	☒ Yes ☐ No ☐ N/A	
					COMMENTS 1. 2. 3. 4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No 5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other 6. <u>5 days</u> 7. 8. <u>One VG9H received broken for samples MW9 and MW13; cracked cap on one</u> <u>VG9H for MW6</u> 9. 10. Is sediment visible in the dissolved container? ☐ Yes ☐ No 11. If no, write ID/Date/Time of container below: ☐ See Exceptions ENV-FRM-MIN4-0142 12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142 pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip 13. 14. ☐ See Exceptions ENV-FRM-MIN4-0142 15. Pace Trip Blank Lot # (if purchased): <u>409276</u>																

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Rachel JohnsonDate: 3/17/23Field Data Required? ☐ Yes ☐ No

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: ECLine: 3

	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp
5.4	5.6	5.6
5.5	5.7	
5.7	5.9	
4.8	5.0	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you **MUST** document containers in this section **HERE**



Tracking Number	Temperature



Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

	DC#_Title: ENV-FRM-MIN4-0140 v01_Headspace Exception
	Effective Date: 04/04/2022

Sample ID	Headspace greater than 6mm	Headspace less than 6mm	No Headspace	Total Vials	Sediment Present?
MWG (cracked vial cap)	1	0	2	3	NO

Pace Container Order #1066462

Addresses	Ship To :	Return To:
Order By : Company <u>ELAM Group</u> Contact <u>Sloffer, Chris</u> Email <u>chris.sloffer@elamusa.com</u> Address <u>161 Lakeview Dr</u> Address 2 _____ City <u>Noblesville</u> State <u>IN</u> Zip <u>46060</u> Phone <u>NONE</u>	Company <u>ELAM Group (Pace Analytical)</u> Contact <u>Jon Deeter</u> Email <u>Jonathon.Deeter@elamusa.com</u> Address <u>Larkspur Landing Seattle Renton</u> Address 2 <u>1701 East Valley Road</u> City <u>Renton</u> State <u>WA</u> Zip <u>98057</u> Phone <u>NONE</u>	Company <u>Pace Analytical Minnesota</u> Contact <u>Johnson, Rachel</u> Email <u>rachel.johnson@pacelabs.com</u> Address <u>1700 Elm Street</u> Address 2 <u>Suite 200</u> City <u>Minneapolis</u> State <u>MN</u> Zip <u>55414</u> Phone <u>(612)607-1700</u>

Info					
Project Name <u>Container Order for Seattle Site (ELAM File: WAKS2510C)</u>	Due Date <u>03/02/2023</u>	Profile <u>37235</u>	Quote _____		
Project Manager <u>Johnson, Rachel</u>	Return Date _____	Carrier <u>FedEx</u>	Location <u>WA</u>		

Trip Blanks ☒ Include Trip Blanks	Bottle Labels ☐ Blank ☒ Pre-Printed No Sample IDs ☐ Pre-Printed With Sample IDs	Bottles ☐ Boxed Cases ☐ Individually Wrapped ☒ Grouped By Sample ID/Matrix
Return Shipping Labels ☐ No Shipper ☒ With Shipper	Misc ☒ Sampling Instructions ☒ Custody Seal ☒ Temp. Blanks ☒ Coolers _____ ☒ Syringes _____ ☐ Extra Bubble Wrap ☐ Short Hold/Rush Stickers ☐ DI Water <u>Liter(s)</u> ☐ USDA Regulated Soils	
COC Options ☒ Number of Blanks <u>2</u> ☐ Pre-Printed _____		

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
22	WT	VOC by 8260	(3) 40 mL clear glass vials; HCL	66	0	111422-3CYR	
1	WT	Trip Blank	2-40mL HCL w/custody seal	2	0	409276	

RETURN W/ SAMPLES

Hazard Shipping Placard In Place : NO

*Sample receiving hours are Mon-Fri 7:30am-7:00pm and Sat 9:00am-1:00pm unless special arrangements are made with your project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	<u>03/01/2023</u>
Prepared By:	<u>PC</u>
Verified By:	_____

Sample

CLIENT USE (Optional):

Date Rec'd:	_____
Received By:	_____
Verified By:	_____



VCP ID No. NW2009

Project No. WAKS2510C22.2

Date: 4/1/24

Appendix D.2

Q2 2023 Groundwater Analytical Report



July 05, 2023

Jason Oland
ELAM Group
161 Lakeview Drive
Suite B
Noblesville, IN 46060

RE: Project: WAKS2510C
Pace Project No.: 10658463

Dear Jason Oland:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Johnson".

Rachel Johnson
rachel.johnson@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Chris Sloffer, ELM Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WAKS2510C

Pace Project No.: 10658463

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WAKS2510C

Pace Project No.: 10658463

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10658463001	FD1:G061923	Water		06/21/23 08:50
10658463002	EB1:W061723	Water	06/17/23 14:55	06/21/23 08:50
10658463003	EB2:W061823	Water	06/18/23 15:15	06/21/23 08:50
10658463004	EB3: W061923	Water	06/19/23 13:41	06/21/23 08:50
10658463005	MW1:G061923	Water	06/19/23 15:03	06/21/23 08:50
10658463006	MW2R-G061823	Water	06/18/23 16:59	06/21/23 08:50
10658463007	MW3R-G061823	Water	06/18/23 16:03	06/21/23 08:50
10658463008	MW4:G061723	Water	06/17/23 15:36	06/21/23 08:50
10658463009	MW5:G061823	Water	06/18/23 09:56	06/21/23 08:50
10658463010	MW6:G061823	Water	06/18/23 11:41	06/21/23 08:50
10658463011	MW7:G061923	Water	06/19/23 11:01	06/21/23 08:50
10658463012	MW9:G061723	Water	06/17/23 14:20	06/21/23 08:50
10658463013	MW11:G061923	Water	06/19/23 12:08	06/21/23 08:50
10658463014	MW15D:G061823	Water	06/18/23 08:50	06/21/23 08:50
10658463015	MW15:G061923	Water	06/19/23 13:24	06/21/23 08:50
10658463016	MW13:G061823	Water	06/18/23 10:45	06/21/23 08:50
10658463017	MW23:G061823	Water	06/18/23 14:47	06/21/23 08:50
10658463018	MW101:G061823	Water	06/18/23 13:01	06/21/23 08:50
10658463019	Trip Blank	Water		06/21/23 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WAKS2510C

Pace Project No.: 10658463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10658463001	FD1:G061923	EPA 8260D	JEM	72	PASI-M
10658463002	EB1:W061723	EPA 8260D	JEM, TKL	72	PASI-M
10658463003	EB2:W061823	EPA 8260D	JEM, TKL	72	PASI-M
10658463004	EB3: W061923	EPA 8260D	JEM, TKL	72	PASI-M
10658463005	MW1:G061923	EPA 8260D	JEM, NMB	72	PASI-M
10658463006	MW2R-G061823	EPA 8260D	JEM, NMB, TKL	72	PASI-M
10658463007	MW3R-G061823	EPA 8260D	JEM, NMB, TKL	72	PASI-M
10658463008	MW4:G061723	EPA 8260D	NMB, TKL	72	PASI-M
10658463009	MW5:G061823	EPA 8260D	JEM, TKL	72	PASI-M
10658463010	MW6:G061823	EPA 8260D	JEM, TKL	72	PASI-M
10658463011	MW7:G061923	EPA 8260D	JEM, NMB, TKL	72	PASI-M
10658463012	MW9:G061723	EPA 8260D	JEM, TKL	73	PASI-M
10658463013	MW11:G061923	EPA 8260D	NMB, TKL	72	PASI-M
10658463014	MW15D:G061823	EPA 8260D	NMB, TKL	72	PASI-M
10658463015	MW15:G061923	EPA 8260D	NMB, TKL	72	PASI-M
10658463016	MW13:G061823	EPA 8260D	NMB, TKL	72	PASI-M
10658463017	MW23:G061823	EPA 8260D	JEM, TKL	72	PASI-M
10658463018	MW101:G061823	EPA 8260D	JEM, TKL	72	PASI-M
10658463019	Trip Blank	EPA 8260D	NMB	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: FD1:G061923		Lab ID: 10658463001		Collected:		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	2580	ug/L	100	10		06/30/23 21:27	67-64-1		
Allyl chloride	ND	ug/L	25.0	10		06/26/23 18:33	107-05-1		
Benzene	ND	ug/L	10.0	10		06/26/23 18:33	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		06/26/23 18:33	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		06/26/23 18:33	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		06/26/23 18:33	75-27-4		
Bromoform	ND	ug/L	10.0	10		06/26/23 18:33	75-25-2		
Bromomethane	ND	ug/L	25.0	10		06/26/23 18:33	74-83-9		
2-Butanone (MEK)	1090	ug/L	100	10		06/26/23 18:33	78-93-3		
n-Butylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		06/26/23 18:33	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		06/26/23 18:33	108-90-7		
Chloroethane	ND	ug/L	10.0	10		06/26/23 18:33	75-00-3		
Chloroform	ND	ug/L	10.0	10		06/26/23 18:33	67-66-3		
Chloromethane	ND	ug/L	10.0	10		06/26/23 18:33	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		06/26/23 18:33	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		06/26/23 18:33	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		06/26/23 18:33	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		06/26/23 18:33	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		06/26/23 18:33	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		06/26/23 18:33	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		06/26/23 18:33	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		06/26/23 18:33	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		06/26/23 18:33	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		06/26/23 18:33	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		06/26/23 18:33	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		06/26/23 18:33	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		06/26/23 18:33	75-35-4		
cis-1,2-Dichloroethene	1210	ug/L	10.0	10		06/26/23 18:33	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		06/26/23 18:33	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		06/26/23 18:33	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		06/26/23 18:33	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		06/26/23 18:33	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		06/26/23 18:33	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		06/26/23 18:33	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		06/26/23 18:33	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		06/26/23 18:33	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		06/26/23 18:33	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		06/26/23 18:33	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		06/26/23 18:33	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		06/26/23 18:33	99-87-6		
Methylene Chloride	ND	ug/L	10.0	10		06/26/23 18:33	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		06/26/23 18:33	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: FD1:G061923		Lab ID: 10658463001		Collected:		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		06/26/23 18:33	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		06/26/23 18:33	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	103-65-1		
Styrene	ND	ug/L	10.0	10		06/26/23 18:33	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		06/26/23 18:33	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		06/26/23 18:33	79-34-5		
Tetrachloroethene	329	ug/L	10.0	10		06/26/23 18:33	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		06/26/23 18:33	109-99-9		
Toluene	ND	ug/L	10.0	10		06/26/23 18:33	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		06/26/23 18:33	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		06/26/23 18:33	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		06/26/23 18:33	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		06/26/23 18:33	79-00-5		
Trichloroethene	26.1	ug/L	10.0	10		06/26/23 18:33	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		06/26/23 18:33	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	25.0	10		06/26/23 18:33	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		06/26/23 18:33	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		06/26/23 18:33	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		06/26/23 18:33	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		06/26/23 18:33	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		06/26/23 18:33	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		06/26/23 18:33	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	10		06/26/23 18:33	2199-69-1	D4	
4-Bromofluorobenzene (S)	100	%.	75-125	10		06/26/23 18:33	460-00-4		
Toluene-d8 (S)	96	%.	75-125	10		06/26/23 18:33	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: EB1:W061723		Lab ID: 10658463002		Collected: 06/17/23 14:55		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 19:08	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 19:08	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 19:08	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 19:08	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 19:08	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 19:08	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 19:08	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 19:08	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 19:08	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 19:08	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 19:08	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 19:08	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 19:08	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 19:08	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 19:08	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 19:08	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 19:08	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 19:08	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 19:08	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 19:08	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:08	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:08	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:08	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 19:08	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 19:08	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 19:08	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:08	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:08	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:08	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 19:08	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:08	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:08	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:08	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:08	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:08	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:08	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 19:08	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 19:08	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 19:08	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 19:08	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 19:08	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 19:08	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: EB1:W061723		Lab ID: 10658463002		Collected: 06/17/23 14:55		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 19:08	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 19:55	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 19:08	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 19:08	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 19:08	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		06/22/23 19:08	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 19:08	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 19:08	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:08	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:08	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 19:08	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 19:08	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 19:08	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 19:08	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 19:08	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 19:08	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 19:08	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 19:08	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 19:08	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 19:08	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 19:08	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 19:08	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/22/23 19:08	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 19:08	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: EB2:W061823		Lab ID: 10658463003		Collected: 06/18/23 15:15		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 19:24	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 19:24	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 19:24	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 19:24	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 19:24	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 19:24	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 19:24	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 19:24	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 19:24	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 19:24	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 19:24	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 19:24	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 19:24	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 19:24	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 19:24	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 19:24	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 19:24	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 19:24	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 19:24	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 19:24	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:24	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:24	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:24	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 19:24	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 19:24	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 19:24	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:24	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:24	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:24	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 19:24	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:24	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:24	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:24	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:24	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:24	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:24	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 19:24	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 19:24	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 19:24	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 19:24	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 19:24	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 19:24	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: EB2:W061823		Lab ID: 10658463003		Collected: 06/18/23 15:15		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 19:24	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 20:11	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 19:24	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 19:24	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 19:24	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		06/22/23 19:24	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 19:24	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 19:24	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:24	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:24	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 19:24	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 19:24	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 19:24	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 19:24	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 19:24	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 19:24	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 19:24	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 19:24	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 19:24	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 19:24	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 19:24	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 19:24	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		06/22/23 19:24	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 19:24	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: EB3: W061923		Lab ID: 10658463004		Collected: 06/19/23 13:41		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 19:40	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 19:40	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 19:40	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 19:40	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 19:40	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 19:40	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 19:40	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 19:40	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 19:40	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 19:40	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 19:40	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 19:40	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 19:40	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 19:40	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 19:40	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 19:40	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 19:40	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 19:40	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 19:40	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 19:40	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:40	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:40	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:40	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 19:40	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 19:40	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 19:40	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:40	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:40	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 19:40	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 19:40	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:40	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:40	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 19:40	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:40	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:40	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 19:40	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 19:40	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 19:40	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 19:40	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 19:40	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 19:40	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 19:40	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: EB3: W061923		Lab ID: 10658463004		Collected: 06/19/23 13:41		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 19:40	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 20:28	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 19:40	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 19:40	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 19:40	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		06/22/23 19:40	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 19:40	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 19:40	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:40	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 19:40	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 19:40	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 19:40	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 19:40	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 19:40	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 19:40	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 19:40	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 19:40	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 19:40	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 19:40	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 19:40	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 19:40	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 19:40	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		06/22/23 19:40	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		06/22/23 19:40	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW1:G061923		Lab ID: 10658463005		Collected: 06/19/23 15:03		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	2990	ug/L	100	10		06/23/23 17:54	67-64-1		
Allyl chloride	ND	ug/L	25.0	10		06/23/23 17:54	107-05-1		
Benzene	ND	ug/L	10.0	10		06/23/23 17:54	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		06/23/23 17:54	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		06/23/23 17:54	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		06/23/23 17:54	75-27-4		
Bromoform	ND	ug/L	10.0	10		06/23/23 17:54	75-25-2		
Bromomethane	ND	ug/L	25.0	10		06/23/23 17:54	74-83-9		
2-Butanone (MEK)	1600	ug/L	100	10		06/28/23 16:16	78-93-3		
n-Butylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		06/23/23 17:54	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		06/23/23 17:54	108-90-7		
Chloroethane	ND	ug/L	10.0	10		06/23/23 17:54	75-00-3		
Chloroform	ND	ug/L	10.0	10		06/23/23 17:54	67-66-3		
Chloromethane	ND	ug/L	10.0	10		06/23/23 17:54	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		06/23/23 17:54	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		06/23/23 17:54	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		06/23/23 17:54	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		06/23/23 17:54	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		06/23/23 17:54	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		06/23/23 17:54	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		06/23/23 17:54	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		06/23/23 17:54	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		06/23/23 17:54	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		06/23/23 17:54	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		06/23/23 17:54	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		06/23/23 17:54	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		06/23/23 17:54	75-35-4		
cis-1,2-Dichloroethene	1150	ug/L	10.0	10		06/23/23 17:54	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		06/23/23 17:54	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		06/23/23 17:54	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		06/23/23 17:54	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		06/23/23 17:54	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		06/23/23 17:54	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		06/23/23 17:54	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		06/23/23 17:54	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		06/23/23 17:54	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		06/23/23 17:54	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		06/23/23 17:54	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		06/23/23 17:54	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		06/23/23 17:54	99-87-6		
Methylene Chloride	14.0	ug/L	10.0	10		06/23/23 17:54	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		06/23/23 17:54	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW1:G061923		Lab ID: 10658463005		Collected: 06/19/23 15:03		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		06/23/23 17:54	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		06/23/23 17:54	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	103-65-1		
Styrene	ND	ug/L	10.0	10		06/23/23 17:54	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		06/23/23 17:54	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		06/23/23 17:54	79-34-5		
Tetrachloroethene	340	ug/L	10.0	10		06/23/23 17:54	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		06/23/23 17:54	109-99-9		
Toluene	ND	ug/L	10.0	10		06/23/23 17:54	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		06/23/23 17:54	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		06/23/23 17:54	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		06/23/23 17:54	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		06/23/23 17:54	79-00-5		
Trichloroethene	26.3	ug/L	10.0	10		06/23/23 17:54	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		06/23/23 17:54	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	25.0	10		06/23/23 17:54	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		06/23/23 17:54	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		06/23/23 17:54	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		06/23/23 17:54	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		06/23/23 17:54	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		06/23/23 17:54	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		06/23/23 17:54	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	10		06/23/23 17:54	2199-69-1	D4	
4-Bromofluorobenzene (S)	98	%.	75-125	10		06/23/23 17:54	460-00-4		
Toluene-d8 (S)	96	%.	75-125	10		06/23/23 17:54	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW2R-G061823		Lab ID: 10658463006		Collected: 06/18/23 16:59		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 20:44	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 20:44	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 20:44	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 20:44	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 20:44	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 20:44	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 20:44	75-25-2		
Bromomethane	7.5	ug/L	2.5	1		06/22/23 20:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 20:44	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 20:44	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 20:44	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 20:44	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 20:44	67-66-3		
Chloromethane	1.7	ug/L	1.0	1		06/22/23 20:44	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 20:44	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 20:44	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 20:44	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 20:44	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 20:44	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 20:44	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:44	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:44	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 20:44	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 20:44	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 20:44	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 20:44	75-35-4		
cis-1,2-Dichloroethene	6.3	ug/L	1.0	1		06/22/23 20:44	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 20:44	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 20:44	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 20:44	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 20:44	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 20:44	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 20:44	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 20:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 20:44	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 20:44	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 20:44	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 20:44	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 20:44	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 20:44	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 20:44	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW2R-G061823		Lab ID: 10658463006		Collected: 06/18/23 16:59		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 20:44	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/27/23 00:15	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 20:44	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 20:44	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 20:44	79-34-5		
Tetrachloroethene	177	ug/L	2.0	2		06/23/23 16:31	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 20:44	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 20:44	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:44	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:44	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 20:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 20:44	79-00-5		
Trichloroethene	8.5	ug/L	1.0	1		06/22/23 20:44	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 20:44	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 20:44	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 20:44	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 20:44	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 20:44	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 20:44	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 20:44	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 20:44	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 20:44	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/22/23 20:44	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		06/22/23 20:44	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW3R-G061823		Lab ID: 10658463007		Collected: 06/18/23 16:03		Received: 06/21/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1			06/22/23 21:00	67-64-1	
Allyl chloride	ND	ug/L	2.5	1			06/22/23 21:00	107-05-1	
Benzene	ND	ug/L	1.0	1			06/22/23 21:00	71-43-2	
Bromobenzene	ND	ug/L	1.0	1			06/22/23 21:00	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1			06/22/23 21:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1			06/22/23 21:00	75-27-4	
Bromoform	ND	ug/L	1.0	1			06/22/23 21:00	75-25-2	
Bromomethane	ND	ug/L	2.5	1			06/22/23 21:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			06/22/23 21:00	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1			06/22/23 21:00	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1			06/22/23 21:00	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1			06/22/23 21:00	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1			06/22/23 21:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1			06/22/23 21:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1			06/22/23 21:00	75-00-3	
Chloroform	ND	ug/L	1.0	1			06/22/23 21:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1			06/22/23 21:00	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1			06/22/23 21:00	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1			06/22/23 21:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1			06/22/23 21:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1			06/22/23 21:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1			06/22/23 21:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	1			06/22/23 21:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1			06/22/23 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1			06/22/23 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1			06/22/23 21:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1			06/22/23 21:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1			06/22/23 21:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1			06/22/23 21:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1			06/22/23 21:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1			06/22/23 21:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1			06/22/23 21:00	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1			06/22/23 21:00	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1			06/22/23 21:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1			06/22/23 21:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1			06/22/23 21:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1			06/22/23 21:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1			06/22/23 21:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1			06/22/23 21:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1			06/22/23 21:00	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1			06/22/23 21:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1			06/22/23 21:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1			06/22/23 21:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1			06/22/23 21:00	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1			06/22/23 21:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			06/22/23 21:00	108-10-1	

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW3R-G061823		Lab ID: 10658463007		Collected: 06/18/23 16:03		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 21:00	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/27/23 00:31	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 21:00	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 21:00	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:00	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:00	79-34-5		
Tetrachloroethene	203	ug/L	2.0	2		06/23/23 16:47	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 21:00	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 21:00	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:00	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:00	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:00	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:00	79-00-5		
Trichloroethene	2.7	ug/L	1.0	1		06/22/23 21:00	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:00	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 21:00	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 21:00	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:00	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:00	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 21:00	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 21:00	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 21:00	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 21:00	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%.	75-125	1		06/22/23 21:00	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/22/23 21:00	460-00-4		
Toluene-d8 (S)	96	%.	75-125	1		06/22/23 21:00	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW4:G061723		Lab ID: 10658463008		Collected: 06/17/23 15:36		Received: 06/21/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		06/22/23 21:16	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 21:16	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 21:16	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 21:16	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 21:16	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 21:16	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 21:16	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 21:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 21:16	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 21:16	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 21:16	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 21:16	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 21:16	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 21:16	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 21:16	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 21:16	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 21:16	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 21:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 21:16	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 21:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:16	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 21:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 21:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 21:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:16	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:16	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:16	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:16	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 21:16	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 21:16	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 21:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 21:16	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 21:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 21:16	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW4:G061723		Lab ID: 10658463008		Collected: 06/17/23 15:36		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 21:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/23/23 15:43	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 21:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:16	79-34-5		
Tetrachloroethene	4.7	ug/L	1.0	1		06/23/23 15:43	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 21:16	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 21:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:16	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 21:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:16	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 21:16	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 21:16	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:16	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 21:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 21:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 21:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 21:16	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 21:16	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/22/23 21:16	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		06/22/23 21:16	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW5:G061823		Lab ID: 10658463009		Collected: 06/18/23 09:56		Received: 06/21/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		06/22/23 21:32	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 21:32	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 21:32	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 21:32	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 21:32	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 21:32	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 21:32	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 21:32	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 21:32	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 21:32	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 21:32	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 21:32	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 21:32	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 21:32	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 21:32	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 21:32	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 21:32	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 21:32	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 21:32	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 21:32	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:32	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:32	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:32	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 21:32	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 21:32	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 21:32	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:32	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:32	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:32	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:32	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:32	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:32	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:32	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:32	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:32	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:32	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 21:32	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 21:32	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 21:32	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 21:32	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 21:32	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 21:32	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW5:G061823		Lab ID: 10658463009		Collected: 06/18/23 09:56		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 21:32	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 21:00	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 21:32	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:32	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:32	79-34-5		
Tetrachloroethene	47.2	ug/L	1.0	1		06/22/23 21:32	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 21:32	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 21:32	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:32	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:32	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:32	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:32	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 21:32	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:32	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 21:32	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 21:32	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:32	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 21:32	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 21:32	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 21:32	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 21:32	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 21:32	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/22/23 21:32	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		06/22/23 21:32	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW6:G061823		Lab ID: 10658463010		Collected: 06/18/23 11:41		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 21:48	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 21:48	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 21:48	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 21:48	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 21:48	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 21:48	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 21:48	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 21:48	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 21:48	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 21:48	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 21:48	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 21:48	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 21:48	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 21:48	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 21:48	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 21:48	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 21:48	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 21:48	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 21:48	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 21:48	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:48	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:48	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:48	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 21:48	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 21:48	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 21:48	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:48	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:48	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 21:48	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:48	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:48	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:48	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 21:48	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:48	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:48	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 21:48	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 21:48	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 21:48	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 21:48	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 21:48	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 21:48	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 21:48	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW6:G061823		Lab ID: 10658463010		Collected: 06/18/23 11:41		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 21:48	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 21:16	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 21:48	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:48	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 21:48	79-34-5		
Tetrachloroethene	82.8	ug/L	1.0	1		06/22/23 21:48	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 21:48	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 21:48	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:48	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 21:48	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:48	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 21:48	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 21:48	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 21:48	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 21:48	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 21:48	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 21:48	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 21:48	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 21:48	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 21:48	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 21:48	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 21:48	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		06/22/23 21:48	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		06/22/23 21:48	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW7:G061923		Lab ID: 10658463011		Collected: 06/19/23 11:01		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	105	ug/L	10.0	1		06/22/23 22:04	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 22:04	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 22:04	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 22:04	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 22:04	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 22:04	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 22:04	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 22:04	74-83-9		
2-Butanone (MEK)	16.1	ug/L	10.0	1		06/22/23 22:04	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 22:04	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 22:04	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 22:04	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 22:04	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 22:04	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:04	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:04	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 22:04	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 22:04	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 22:04	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 22:04	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:04	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:04	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:04	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 22:04	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:04	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:04	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:04	75-35-4		
cis-1,2-Dichloroethene	286	ug/L	5.0	5		06/23/23 17:37	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:04	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:04	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:04	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:04	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:04	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:04	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:04	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:04	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 22:04	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 22:04	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 22:04	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 22:04	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 22:04	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 22:04	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW7:G061923		Lab ID: 10658463011		Collected: 06/19/23 11:01		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 22:04	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/27/23 00:47	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 22:04	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:04	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:04	79-34-5		
Tetrachloroethene	3.3	ug/L	1.0	1		06/22/23 22:04	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 22:04	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 22:04	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:04	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:04	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:04	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:04	79-00-5		
Trichloroethene	5.4	ug/L	1.0	1		06/22/23 22:04	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:04	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 22:04	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 22:04	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:04	108-67-8		
Vinyl chloride	2.5	ug/L	1.0	1		06/22/23 22:04	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 22:04	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 22:04	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 22:04	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 22:04	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/22/23 22:04	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 22:04	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW9:G061723		Lab ID: 10658463012		Collected: 06/17/23 14:20		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 20:28	67-64-1	M1,c2	
Allyl chloride	ND	ug/L	2.5	1		06/22/23 20:28	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 20:28	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 20:28	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 20:28	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 20:28	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 20:28	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 20:28	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 20:28	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 20:28	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 20:28	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 20:28	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/22/23 20:28	110-75-8		
Chloroform	ND	ug/L	1.0	1		06/22/23 20:28	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 20:28	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 20:28	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 20:28	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 20:28	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 20:28	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 20:28	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 20:28	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:28	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:28	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:28	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 20:28	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 20:28	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 20:28	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 20:28	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 20:28	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 20:28	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 20:28	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 20:28	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 20:28	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 20:28	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 20:28	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 20:28	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 20:28	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 20:28	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 20:28	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 20:28	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 20:28	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 20:28	75-09-2		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW9:G061723		Lab ID: 10658463012		Collected: 06/17/23 14:20		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 20:28	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 20:28	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 20:44	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 20:28	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 20:28	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 20:28	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		06/22/23 20:28	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 20:28	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 20:28	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:28	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 20:28	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 20:28	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 20:28	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 20:28	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 20:28	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 20:28	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 20:28	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 20:28	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 20:28	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 20:28	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 20:28	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 20:28	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 20:28	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/22/23 20:28	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 20:28	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW11:G061923		Lab ID: 10658463013		Collected: 06/19/23 12:08		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 22:20	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 22:20	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 22:20	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 22:20	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 22:20	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 22:20	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 22:20	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 22:20	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 22:20	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 22:20	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 22:20	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 22:20	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 22:20	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 22:20	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:20	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:20	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 22:20	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 22:20	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 22:20	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 22:20	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:20	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:20	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:20	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 22:20	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:20	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:20	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:20	75-35-4		
cis-1,2-Dichloroethene	28.1	ug/L	1.0	1		06/23/23 19:47	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:20	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:20	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:20	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:20	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:20	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:20	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:20	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:20	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 22:20	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 22:20	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 22:20	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 22:20	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 22:20	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 22:20	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW11:G061923		Lab ID: 10658463013		Collected: 06/19/23 12:08		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 22:20	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/23/23 19:47	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 22:20	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:20	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:20	79-34-5		
Tetrachloroethene	235	ug/L	2.0	2		06/23/23 17:04	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 22:20	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 22:20	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:20	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:20	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:20	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:20	79-00-5		
Trichloroethene	11.6	ug/L	1.0	1		06/22/23 22:20	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:20	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 22:20	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 22:20	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:20	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 22:20	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 22:20	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 22:20	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 22:20	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 22:20	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/22/23 22:20	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		06/22/23 22:20	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW15D:G061823		Lab ID: 10658463014		Collected: 06/18/23 08:50		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 22:36	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 22:36	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 22:36	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 22:36	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 22:36	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 22:36	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 22:36	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 22:36	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 22:36	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 22:36	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 22:36	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 22:36	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 22:36	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 22:36	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:36	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:36	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 22:36	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 22:36	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 22:36	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 22:36	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:36	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:36	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:36	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 22:36	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:36	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:36	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:36	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:36	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:36	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:36	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:36	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:36	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:36	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:36	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:36	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:36	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 22:36	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 22:36	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 22:36	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 22:36	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 22:36	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 22:36	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW15D:G061823		Lab ID: 10658463014		Collected: 06/18/23 08:50		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 22:36	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/23/23 15:59	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 22:36	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:36	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:36	79-34-5		
Tetrachloroethene	19.2	ug/L	1.0	1		06/23/23 15:59	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 22:36	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 22:36	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:36	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:36	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:36	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:36	79-00-5		
Trichloroethene	2.6	ug/L	1.0	1		06/22/23 22:36	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:36	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 22:36	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 22:36	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:36	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 22:36	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 22:36	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 22:36	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 22:36	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 22:36	2199-69-1		
4-Bromofluorobenzene (S)	99	%.	75-125	1		06/22/23 22:36	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 22:36	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW15:G061923		Lab ID: 10658463015		Collected: 06/19/23 13:24		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 22:52	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 22:52	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 22:52	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 22:52	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 22:52	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 22:52	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 22:52	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 22:52	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 22:52	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 22:52	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 22:52	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 22:52	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 22:52	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 22:52	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:52	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 22:52	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 22:52	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 22:52	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 22:52	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 22:52	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:52	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:52	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:52	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 22:52	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:52	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 22:52	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:52	75-35-4		
cis-1,2-Dichloroethene	1.7	ug/L	1.0	1		06/22/23 22:52	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 22:52	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:52	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:52	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:52	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 22:52	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:52	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:52	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 22:52	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 22:52	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 22:52	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 22:52	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 22:52	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 22:52	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 22:52	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW15:G061923		Lab ID: 10658463015		Collected: 06/19/23 13:24		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 22:52	1634-04-4	v3	
Naphthalene	ND	ug/L	1.0	1		06/22/23 22:52	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 22:52	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:52	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 22:52	79-34-5		
Tetrachloroethene	646	ug/L	10.0	10		06/23/23 18:10	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 22:52	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 22:52	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:52	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 22:52	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:52	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 22:52	79-00-5		
Trichloroethene	14.4	ug/L	1.0	1		06/22/23 22:52	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 22:52	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 22:52	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 22:52	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 22:52	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 22:52	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 22:52	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 22:52	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 22:52	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 22:52	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/22/23 22:52	460-00-4		
Toluene-d8 (S)	96	%.	75-125	1		06/22/23 22:52	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW13:G061823		Lab ID: 10658463016		Collected: 06/18/23 10:45		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/22/23 23:08	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 23:08	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 23:08	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 23:08	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 23:08	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 23:08	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 23:08	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 23:08	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 23:08	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 23:08	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 23:08	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 23:08	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 23:08	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 23:08	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 23:08	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 23:08	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 23:08	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 23:08	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 23:08	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 23:08	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:08	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:08	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:08	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 23:08	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 23:08	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 23:08	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:08	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:08	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:08	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 23:08	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:08	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:08	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:08	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:08	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:08	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:08	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 23:08	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 23:08	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 23:08	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 23:08	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 23:08	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 23:08	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW13:G061823		Lab ID: 10658463016		Collected: 06/18/23 10:45		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 23:08	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/23/23 16:15	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 23:08	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 23:08	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 23:08	79-34-5		
Tetrachloroethene	38.4	ug/L	1.0	1		06/23/23 16:15	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 23:08	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 23:08	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:08	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:08	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 23:08	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 23:08	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/22/23 23:08	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 23:08	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 23:08	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 23:08	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 23:08	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 23:08	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 23:08	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 23:08	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 23:08	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 23:08	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		06/22/23 23:08	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 23:08	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW23:G061823		Lab ID: 10658463017		Collected: 06/18/23 14:47		Received: 06/21/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		06/22/23 23:24	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 23:24	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 23:24	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 23:24	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 23:24	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 23:24	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 23:24	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 23:24	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 23:24	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 23:24	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 23:24	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 23:24	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 23:24	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 23:24	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 23:24	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 23:24	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 23:24	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 23:24	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 23:24	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 23:24	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:24	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:24	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:24	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 23:24	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 23:24	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 23:24	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:24	75-35-4		
cis-1,2-Dichloroethene	28.4	ug/L	1.0	1		06/22/23 23:24	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:24	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 23:24	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:24	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:24	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:24	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:24	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:24	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:24	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 23:24	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 23:24	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 23:24	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 23:24	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 23:24	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 23:24	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW23:G061823		Lab ID: 10658463017		Collected: 06/18/23 14:47		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 23:24	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 21:32	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 23:24	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 23:24	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 23:24	79-34-5		
Tetrachloroethene	190	ug/L	1.0	1		06/22/23 23:24	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 23:24	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 23:24	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:24	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:24	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 23:24	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 23:24	79-00-5		
Trichloroethene	9.2	ug/L	1.0	1		06/22/23 23:24	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 23:24	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 23:24	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 23:24	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 23:24	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 23:24	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 23:24	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 23:24	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 23:24	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/22/23 23:24	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		06/22/23 23:24	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		06/22/23 23:24	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW101:G061823		Lab ID: 10658463018		Collected: 06/18/23 13:01		Received: 06/21/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		06/22/23 23:39	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/22/23 23:39	107-05-1		
Benzene	ND	ug/L	1.0	1		06/22/23 23:39	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/22/23 23:39	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/22/23 23:39	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/22/23 23:39	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/22/23 23:39	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/22/23 23:39	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/22/23 23:39	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/22/23 23:39	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/22/23 23:39	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/22/23 23:39	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/22/23 23:39	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/22/23 23:39	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 23:39	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/22/23 23:39	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/22/23 23:39	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/22/23 23:39	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/22/23 23:39	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/22/23 23:39	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:39	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:39	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:39	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/22/23 23:39	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/23 23:39	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/23 23:39	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:39	75-35-4		
cis-1,2-Dichloroethene	19.6	ug/L	1.0	1		06/22/23 23:39	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/23 23:39	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 23:39	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:39	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:39	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/22/23 23:39	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:39	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:39	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/22/23 23:39	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/22/23 23:39	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/22/23 23:39	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/22/23 23:39	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/22/23 23:39	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/22/23 23:39	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/22/23 23:39	108-10-1		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: MW101:G061823		Lab ID: 10658463018		Collected: 06/18/23 13:01		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/23 23:39	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/26/23 21:49	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	103-65-1		
Styrene	ND	ug/L	1.0	1		06/22/23 23:39	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 23:39	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/22/23 23:39	79-34-5		
Tetrachloroethene	141	ug/L	1.0	1		06/22/23 23:39	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/22/23 23:39	109-99-9		
Toluene	ND	ug/L	1.0	1		06/22/23 23:39	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:39	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/22/23 23:39	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/23 23:39	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/23 23:39	79-00-5		
Trichloroethene	6.1	ug/L	1.0	1		06/22/23 23:39	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/22/23 23:39	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/22/23 23:39	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/22/23 23:39	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/22/23 23:39	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/22/23 23:39	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/22/23 23:39	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/22/23 23:39	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/22/23 23:39	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		06/22/23 23:39	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		06/22/23 23:39	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		06/22/23 23:39	2037-26-5		

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: Trip Blank		Lab ID: 10658463019		Collected:		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		06/23/23 15:11	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		06/23/23 15:11	107-05-1		
Benzene	ND	ug/L	1.0	1		06/23/23 15:11	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		06/23/23 15:11	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		06/23/23 15:11	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		06/23/23 15:11	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/23/23 15:11	75-25-2		
Bromomethane	ND	ug/L	2.5	1		06/23/23 15:11	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/23/23 15:11	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		06/23/23 15:11	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		06/23/23 15:11	108-90-7		
Chloroethane	ND	ug/L	1.0	1		06/23/23 15:11	75-00-3		
Chloroform	ND	ug/L	1.0	1		06/23/23 15:11	67-66-3		
Chloromethane	ND	ug/L	1.0	1		06/23/23 15:11	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		06/23/23 15:11	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		06/23/23 15:11	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		06/23/23 15:11	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		06/23/23 15:11	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/23/23 15:11	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		06/23/23 15:11	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/23/23 15:11	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/23/23 15:11	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/23/23 15:11	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/23/23 15:11	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		06/23/23 15:11	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		06/23/23 15:11	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		06/23/23 15:11	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/23/23 15:11	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/23/23 15:11	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		06/23/23 15:11	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		06/23/23 15:11	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		06/23/23 15:11	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		06/23/23 15:11	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		06/23/23 15:11	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/23/23 15:11	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/23/23 15:11	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		06/23/23 15:11	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/23/23 15:11	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		06/23/23 15:11	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		06/23/23 15:11	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		06/23/23 15:11	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/23/23 15:11	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WAKS2510C

Pace Project No.: 10658463

Sample: Trip Blank		Lab ID: 10658463019		Collected:		Received: 06/21/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/23/23 15:11	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		06/23/23 15:11	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	103-65-1		
Styrene	ND	ug/L	1.0	1		06/23/23 15:11	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/23 15:11	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/23/23 15:11	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		06/23/23 15:11	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		06/23/23 15:11	109-99-9		
Toluene	ND	ug/L	1.0	1		06/23/23 15:11	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/23/23 15:11	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/23/23 15:11	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/23/23 15:11	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/23/23 15:11	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		06/23/23 15:11	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/23/23 15:11	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		06/23/23 15:11	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		06/23/23 15:11	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		06/23/23 15:11	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		06/23/23 15:11	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		06/23/23 15:11	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		06/23/23 15:11	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		06/23/23 15:11	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125	1		06/23/23 15:11	2199-69-1		
4-Bromofluorobenzene (S)	97	%.	75-125	1		06/23/23 15:11	460-00-4		
Toluene-d8 (S)	97	%.	75-125	1		06/23/23 15:11	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

QC Batch: 889463

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10658463002, 10658463003, 10658463004, 10658463006, 10658463007, 10658463008, 10658463009, 10658463010, 10658463011, 10658463012, 10658463013, 10658463014, 10658463015, 10658463016, 10658463017, 10658463018

METHOD BLANK: 4686580

Matrix: Water

Associated Lab Samples: 10658463002, 10658463003, 10658463004, 10658463006, 10658463007, 10658463008, 10658463009, 10658463010, 10658463011, 10658463012, 10658463013, 10658463014, 10658463015, 10658463016, 10658463017, 10658463018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/22/23 18:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/22/23 18:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/22/23 18:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/22/23 18:35	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/22/23 18:35	
1,1-Dichloroethane	ug/L	ND	1.0	06/22/23 18:35	
1,1-Dichloroethene	ug/L	ND	1.0	06/22/23 18:35	
1,1-Dichloropropene	ug/L	ND	1.0	06/22/23 18:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/22/23 18:35	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/22/23 18:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/22/23 18:35	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/22/23 18:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/22/23 18:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/22/23 18:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/22/23 18:35	
1,2-Dichloroethane	ug/L	ND	1.0	06/22/23 18:35	
1,2-Dichloropropane	ug/L	ND	1.0	06/22/23 18:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/22/23 18:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/22/23 18:35	
1,3-Dichloropropane	ug/L	ND	1.0	06/22/23 18:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/22/23 18:35	
2,2-Dichloropropane	ug/L	ND	1.0	06/22/23 18:35	
2-Butanone (MEK)	ug/L	ND	10.0	06/22/23 18:35	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/22/23 18:35	
2-Chlorotoluene	ug/L	ND	1.0	06/22/23 18:35	
4-Chlorotoluene	ug/L	ND	1.0	06/22/23 18:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/22/23 18:35	
Acetone	ug/L	ND	10.0	06/22/23 18:35	
Allyl chloride	ug/L	ND	2.5	06/22/23 18:35	
Benzene	ug/L	ND	1.0	06/22/23 18:35	
Bromobenzene	ug/L	ND	1.0	06/22/23 18:35	
Bromochloromethane	ug/L	ND	1.0	06/22/23 18:35	
Bromodichloromethane	ug/L	ND	1.0	06/22/23 18:35	
Bromoform	ug/L	ND	1.0	06/22/23 18:35	
Bromomethane	ug/L	ND	2.5	06/22/23 18:35	
Carbon tetrachloride	ug/L	ND	1.0	06/22/23 18:35	
Chlorobenzene	ug/L	ND	1.0	06/22/23 18:35	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

METHOD BLANK: 4686580

Matrix: Water

Associated Lab Samples: 10658463002, 10658463003, 10658463004, 10658463006, 10658463007, 10658463008, 10658463009, 10658463010, 10658463011, 10658463012, 10658463013, 10658463014, 10658463015, 10658463016, 10658463017, 10658463018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	1.0	06/22/23 18:35	
Chloroform	ug/L	ND	1.0	06/22/23 18:35	
Chloromethane	ug/L	ND	1.0	06/22/23 18:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/22/23 18:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/22/23 18:35	
Dibromochloromethane	ug/L	ND	1.0	06/22/23 18:35	
Dibromomethane	ug/L	ND	1.0	06/22/23 18:35	
Dichlorodifluoromethane	ug/L	ND	1.0	06/22/23 18:35	
Dichlorofluoromethane	ug/L	ND	1.0	06/22/23 18:35	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	06/22/23 18:35	
Ethylbenzene	ug/L	ND	1.0	06/22/23 18:35	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/22/23 18:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/22/23 18:35	
m&p-Xylene	ug/L	ND	2.0	06/22/23 18:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/22/23 18:35	
Methylene Chloride	ug/L	ND	1.0	06/22/23 18:35	
n-Butylbenzene	ug/L	ND	1.0	06/22/23 18:35	
n-Propylbenzene	ug/L	ND	1.0	06/22/23 18:35	
Naphthalene	ug/L	ND	1.0	06/22/23 18:35	v3
o-Xylene	ug/L	ND	1.0	06/22/23 18:35	
p-Isopropyltoluene	ug/L	ND	1.0	06/22/23 18:35	
sec-Butylbenzene	ug/L	ND	1.0	06/22/23 18:35	
Styrene	ug/L	ND	1.0	06/22/23 18:35	
tert-Butylbenzene	ug/L	ND	1.0	06/22/23 18:35	
Tetrachloroethene	ug/L	ND	1.0	06/22/23 18:35	
Tetrahydrofuran	ug/L	ND	10.0	06/22/23 18:35	
Toluene	ug/L	ND	1.0	06/22/23 18:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/22/23 18:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/22/23 18:35	
Trichloroethene	ug/L	ND	1.0	06/22/23 18:35	
Trichlorofluoromethane	ug/L	ND	1.0	06/22/23 18:35	
Vinyl chloride	ug/L	ND	1.0	06/22/23 18:35	
Xylene (Total)	ug/L	ND	3.0	06/22/23 18:35	
1,2-Dichlorobenzene-d4 (S)	%	96	75-125	06/22/23 18:35	
4-Bromofluorobenzene (S)	%	99	75-125	06/22/23 18:35	
Toluene-d8 (S)	%	98	75-125	06/22/23 18:35	

LABORATORY CONTROL SAMPLE: 4686581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.2	86	75-125	
1,1,1-Trichloroethane	ug/L	20	17.9	89	75-125	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

LABORATORY CONTROL SAMPLE: 4686581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	71-125	
1,1,2-Trichloroethane	ug/L	20	18.3	91	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.1	90	69-125	
1,1-Dichloroethane	ug/L	20	17.7	89	75-125	
1,1-Dichloroethene	ug/L	20	18.6	93	69-125	
1,1-Dichloropropene	ug/L	20	18.7	93	74-125	
1,2,3-Trichlorobenzene	ug/L	20	16.2	81	70-131	
1,2,3-Trichloropropane	ug/L	20	18.2	91	73-125	
1,2,4-Trichlorobenzene	ug/L	20	16.4	82	75-125	
1,2,4-Trimethylbenzene	ug/L	20	17.6	88	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	15.7	78	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	17.8	89	75-125	
1,2-Dichlorobenzene	ug/L	20	17.2	86	75-125	
1,2-Dichloroethane	ug/L	20	16.4	82	75-125	
1,2-Dichloropropane	ug/L	20	18.3	92	75-125	
1,3,5-Trimethylbenzene	ug/L	20	17.8	89	75-125	
1,3-Dichlorobenzene	ug/L	20	17.2	86	75-125	
1,3-Dichloropropane	ug/L	20	17.6	88	75-125	
1,4-Dichlorobenzene	ug/L	20	17.2	86	75-125	
2,2-Dichloropropane	ug/L	20	15.3	77	65-125	
2-Butanone (MEK)	ug/L	100	83.2	83	61-131	
2-Chloroethylvinyl ether	ug/L	100	84.4	84	30-150	
2-Chlorotoluene	ug/L	20	17.6	88	75-125	
4-Chlorotoluene	ug/L	20	17.4	87	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	85.9	86	62-142	
Acetone	ug/L	100	89.7	90	57-137	
Allyl chloride	ug/L	20	15.9	80	73-125	
Benzene	ug/L	20	17.6	88	75-125	
Bromobenzene	ug/L	20	17.7	89	75-125	
Bromochloromethane	ug/L	20	17.8	89	75-125	
Bromodichloromethane	ug/L	20	16.9	84	75-125	
Bromoform	ug/L	20	16.3	81	75-134	
Bromomethane	ug/L	20	16.6	83	32-150	
Carbon tetrachloride	ug/L	20	17.4	87	73-126	
Chlorobenzene	ug/L	20	17.3	86	75-125	
Chloroethane	ug/L	20	16.1	80	70-125	
Chloroform	ug/L	20	16.7	83	75-125	
Chloromethane	ug/L	20	16.7	83	65-125	
cis-1,2-Dichloroethene	ug/L	20	17.1	86	75-125	
cis-1,3-Dichloropropene	ug/L	20	16.3	81	75-125	
Dibromochloromethane	ug/L	20	16.7	83	75-125	
Dibromomethane	ug/L	20	17.0	85	75-125	
Dichlorodifluoromethane	ug/L	20	17.7	89	65-135	
Dichlorofluoromethane	ug/L	20	16.2	81	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.1	91	75-125	
Ethylbenzene	ug/L	20	17.3	86	75-125	
Hexachloro-1,3-butadiene	ug/L	20	17.9	90	63-128	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

LABORATORY CONTROL SAMPLE: 4686581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	20	17.4	87	75-125	
m&p-Xylene	ug/L	40	35.3	88	75-125	
Methyl-tert-butyl ether	ug/L	20	16.8	84	75-125	
Methylene Chloride	ug/L	20	16.5	82	72-125	
n-Butylbenzene	ug/L	20	17.2	86	68-125	
n-Propylbenzene	ug/L	20	18.4	92	74-125	
Naphthalene	ug/L	20	15.3	76	67-140 v3	
o-Xylene	ug/L	20	17.5	88	75-125	
p-Isopropyltoluene	ug/L	20	18.2	91	75-126	
sec-Butylbenzene	ug/L	20	18.7	93	75-126	
Styrene	ug/L	20	17.6	88	75-139	
tert-Butylbenzene	ug/L	20	18.0	90	75-125	
Tetrachloroethene	ug/L	20	17.7	88	70-125	
Tetrahydrofuran	ug/L	100	89.5	89	63-145	
Toluene	ug/L	20	16.9	84	74-125	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	75-125	
trans-1,3-Dichloropropene	ug/L	20	16.8	84	75-127	
Trichloroethene	ug/L	20	18.5	92	74-125	
Trichlorofluoromethane	ug/L	20	16.9	84	72-125	
Vinyl chloride	ug/L	20	17.7	89	66-125	
Xylene (Total)	ug/L	60	52.8	88	75-125	
1,2-Dichlorobenzene-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4686582 4686583

Parameter	Units	10658463012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.4	17.9	87	89	75-125	3	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.5	18.2	88	91	70-133	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.7	18.8	89	94	71-125	6	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.7	18.6	88	93	75-125	5	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	18.0	18.7	90	93	50-150	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.1	18.2	90	91	71-125	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	18.8	18.9	94	95	60-136	1	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.7	19.0	93	95	70-134	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.4	18.2	77	91	66-131	17	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.0	17.7	85	89	73-125	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.3	17.7	82	89	66-125	8	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	17.7	18.0	89	90	61-143	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	13.9	15.9	69	79	61-137	13	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.3	18.4	87	92	75-125	6	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.3	17.6	87	88	75-125	2	30	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			4686582	4686583								
		10658463012	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	16.5	17.2	82	86	71-133	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.0	19.1	95	96	75-125	0	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	17.7	18.1	88	90	70-134	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.0	17.8	85	89	74-125	4	30	
1,3-Dichloropropane	ug/L	ND	20	20	17.7	18.4	88	92	75-125	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.3	17.4	86	87	75-125	1	30	
2,2-Dichloropropane	ug/L	ND	20	20	15.0	18.3	75	92	52-140	20	30	
2-Butanone (MEK)	ug/L	ND	100	100	74.7	81.5	75	82	57-142	9	30	v3
2-Chloroethylvinyl ether	ug/L	ND	100	100	ND	ND	0	0	30-150		30	M1
2-Chlorotoluene	ug/L	ND	20	20	17.5	17.8	88	89	72-125	1	30	
4-Chlorotoluene	ug/L	ND	20	20	17.4	17.8	87	89	69-128	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	83.0	87.4	83	87	59-149	5	30	
Acetone	ug/L	ND	100	100	75.8	82.8	76	83	57-137	9	30	
Allyl chloride	ug/L	ND	20	20	16.1	17.4	81	87	47-139	8	30	
Benzene	ug/L	ND	20	20	18.1	18.4	91	92	66-127	1	30	
Bromobenzene	ug/L	ND	20	20	17.5	17.7	88	89	74-125	1	30	
Bromochloromethane	ug/L	ND	20	20	18.2	18.7	91	93	69-126	2	30	
Bromodichloromethane	ug/L	ND	20	20	17.3	17.8	87	89	75-125	3	30	
Bromoform	ug/L	ND	20	20	16.0	17.3	80	86	66-134	8	30	
Bromomethane	ug/L	ND	20	20	20.5	18.4	103	92	30-150	11	30	
Carbon tetrachloride	ug/L	ND	20	20	17.4	17.9	87	89	73-135	3	30	
Chlorobenzene	ug/L	ND	20	20	17.9	18.3	89	91	75-125	2	30	
Chloroethane	ug/L	ND	20	20	16.4	16.4	82	82	54-143	0	30	v3
Chloroform	ug/L	ND	20	20	17.5	17.6	87	88	75-125	1	30	
Chloromethane	ug/L	ND	20	20	17.5	17.0	87	85	52-131	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.1	18.1	91	90	72-125	0	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.3	17.5	82	88	73-125	7	30	
Dibromochloromethane	ug/L	ND	20	20	16.5	17.9	82	90	73-125	8	30	
Dibromomethane	ug/L	ND	20	20	17.2	17.8	86	89	67-129	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	18.5	18.1	92	91	54-150	2	30	
Dichlorofluoromethane	ug/L	ND	20	20	16.8	16.4	84	82	63-136	2	30	v3
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	17.9	18.8	89	94	70-125	5	30	
Ethylbenzene	ug/L	ND	20	20	17.9	18.1	89	91	74-128	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.4	19.2	82	96	54-133	15	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	17.7	18.3	88	91	75-129	3	30	
m&p-Xylene	ug/L	ND	40	40	36.6	37.3	92	93	70-131	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	16.1	16.2	81	81	65-132	1	30	
Methylene Chloride	ug/L	ND	20	20	18.3	18.8	91	94	67-125	3	30	
n-Butylbenzene	ug/L	ND	20	20	16.8	17.8	84	89	64-130	6	30	
n-Propylbenzene	ug/L	ND	20	20	18.0	18.5	90	92	72-127	3	30	
Naphthalene	ug/L	ND	20	20	15.1	17.3	75	87	61-150	14	30	v3
o-Xylene	ug/L	ND	20	20	18.4	18.6	92	93	75-127	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	17.6	18.5	88	93	71-130	5	30	
sec-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	73-130	4	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4686582 4686583												
Parameter	Units	10658463012		MS		MSD		MS		MSD		Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	% Rec	% Rec	
Styrene	ug/L	ND	20	20	20	18.2	18.8	91	94	73-139	3	30
tert-Butylbenzene	ug/L	ND	20	20	20	17.5	18.2	88	91	73-125	4	30
Tetrachloroethene	ug/L	ND	20	20	20	17.7	18.4	89	92	69-129	4	30
Tetrahydrofuran	ug/L	ND	100	100	100	80.7	87.0	81	87	63-145	8	30
Toluene	ug/L	ND	20	20	20	17.4	17.5	87	87	66-125	0	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	18.3	18.4	91	92	69-126	1	30
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	16.3	17.6	81	88	75-127	8	30
Trichloroethene	ug/L	ND	20	20	20	17.3	17.6	86	88	69-127	2	30
Trichlorofluoromethane	ug/L	ND	20	20	20	16.9	16.0	85	80	58-150	6	30 v3
Vinyl chloride	ug/L	ND	20	20	20	18.1	17.3	91	86	54-146	5	30
Xylene (Total)	ug/L	ND	60	60	60	55.0	56.0	92	93	75-126	2	30
1,2-Dichlorobenzene-d4 (S)	%							96	96	75-125		
4-Bromofluorobenzene (S)	%							101	100	75-125		
Toluene-d8 (S)	%							98	96	75-125		

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

QC Batch:	889652	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10658463005, 10658463006, 10658463007, 10658463008, 10658463011, 10658463013, 10658463014, 10658463015, 10658463016, 10658463019		

METHOD BLANK: 4687943

Matrix: Water

Associated Lab Samples: 10658463005, 10658463006, 10658463007, 10658463008, 10658463011, 10658463013, 10658463014, 10658463015, 10658463016, 10658463019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/23/23 14:55	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/23/23 14:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/23/23 14:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/23/23 14:55	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/23/23 14:55	
1,1-Dichloroethane	ug/L	ND	1.0	06/23/23 14:55	
1,1-Dichloroethene	ug/L	ND	1.0	06/23/23 14:55	
1,1-Dichloropropene	ug/L	ND	1.0	06/23/23 14:55	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/23/23 14:55	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/23/23 14:55	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/23/23 14:55	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/23/23 14:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/23/23 14:55	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/23/23 14:55	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/23/23 14:55	
1,2-Dichloroethane	ug/L	ND	1.0	06/23/23 14:55	
1,2-Dichloropropane	ug/L	ND	1.0	06/23/23 14:55	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/23/23 14:55	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/23/23 14:55	
1,3-Dichloropropane	ug/L	ND	1.0	06/23/23 14:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/23/23 14:55	
2,2-Dichloropropane	ug/L	ND	1.0	06/23/23 14:55	
2-Butanone (MEK)	ug/L	ND	10.0	06/23/23 14:55	
2-Chlorotoluene	ug/L	ND	1.0	06/23/23 14:55	
4-Chlorotoluene	ug/L	ND	1.0	06/23/23 14:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/23/23 14:55	
Acetone	ug/L	ND	10.0	06/23/23 14:55	
Allyl chloride	ug/L	ND	2.5	06/23/23 14:55	
Benzene	ug/L	ND	1.0	06/23/23 14:55	
Bromobenzene	ug/L	ND	1.0	06/23/23 14:55	
Bromochloromethane	ug/L	ND	1.0	06/23/23 14:55	
Bromodichloromethane	ug/L	ND	1.0	06/23/23 14:55	
Bromoform	ug/L	ND	1.0	06/23/23 14:55	
Bromomethane	ug/L	ND	2.5	06/23/23 14:55	
Carbon tetrachloride	ug/L	ND	1.0	06/23/23 14:55	
Chlorobenzene	ug/L	ND	1.0	06/23/23 14:55	
Chloroethane	ug/L	ND	1.0	06/23/23 14:55	
Chloroform	ug/L	ND	1.0	06/23/23 14:55	
Chloromethane	ug/L	ND	1.0	06/23/23 14:55	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

METHOD BLANK: 4687943

Matrix: Water

Associated Lab Samples: 10658463005, 10658463006, 10658463007, 10658463008, 10658463011, 10658463013, 10658463014, 10658463015, 10658463016, 10658463019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/23/23 14:55	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/23/23 14:55	
Dibromochloromethane	ug/L	ND	1.0	06/23/23 14:55	
Dibromomethane	ug/L	ND	1.0	06/23/23 14:55	
Dichlorodifluoromethane	ug/L	ND	1.0	06/23/23 14:55	
Dichlorofluoromethane	ug/L	ND	1.0	06/23/23 14:55	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	06/23/23 14:55	
Ethylbenzene	ug/L	ND	1.0	06/23/23 14:55	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/23/23 14:55	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/23/23 14:55	
m&p-Xylene	ug/L	ND	2.0	06/23/23 14:55	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/23/23 14:55	
Methylene Chloride	ug/L	ND	1.0	06/23/23 14:55	
n-Butylbenzene	ug/L	ND	1.0	06/23/23 14:55	
n-Propylbenzene	ug/L	ND	1.0	06/23/23 14:55	
Naphthalene	ug/L	ND	1.0	06/23/23 14:55	
o-Xylene	ug/L	ND	1.0	06/23/23 14:55	
p-Isopropyltoluene	ug/L	ND	1.0	06/23/23 14:55	
sec-Butylbenzene	ug/L	ND	1.0	06/23/23 14:55	
Styrene	ug/L	ND	1.0	06/23/23 14:55	
tert-Butylbenzene	ug/L	ND	1.0	06/23/23 14:55	
Tetrachloroethene	ug/L	ND	1.0	06/23/23 14:55	
Tetrahydrofuran	ug/L	ND	10.0	06/23/23 14:55	
Toluene	ug/L	ND	1.0	06/23/23 14:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/23/23 14:55	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/23/23 14:55	
Trichloroethene	ug/L	ND	1.0	06/23/23 14:55	
Trichlorofluoromethane	ug/L	ND	1.0	06/23/23 14:55	
Vinyl chloride	ug/L	ND	1.0	06/23/23 14:55	
Xylene (Total)	ug/L	ND	3.0	06/23/23 14:55	
1,2-Dichlorobenzene-d4 (S)	%	96	75-125	06/23/23 14:55	
4-Bromofluorobenzene (S)	%	98	75-125	06/23/23 14:55	
Toluene-d8 (S)	%	97	75-125	06/23/23 14:55	

LABORATORY CONTROL SAMPLE: 4687944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.2	86	75-125	
1,1,1-Trichloroethane	ug/L	20	17.6	88	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	71-125	
1,1,2-Trichloroethane	ug/L	20	17.7	89	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	17.8	89	69-125	
1,1-Dichloroethane	ug/L	20	17.2	86	75-125	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

LABORATORY CONTROL SAMPLE: 4687944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	18.4	92	69-125	
1,1-Dichloropropene	ug/L	20	18.7	93	74-125	
1,2,3-Trichlorobenzene	ug/L	20	18.8	94	70-131	
1,2,3-Trichloropropane	ug/L	20	18.3	92	73-125	
1,2,4-Trichlorobenzene	ug/L	20	18.0	90	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.2	91	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	16.1	80	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	17.5	88	75-125	
1,2-Dichlorobenzene	ug/L	20	17.5	88	75-125	
1,2-Dichloroethane	ug/L	20	16.2	81	75-125	
1,2-Dichloropropane	ug/L	20	18.4	92	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.3	92	75-125	
1,3-Dichlorobenzene	ug/L	20	17.5	88	75-125	
1,3-Dichloropropane	ug/L	20	17.4	87	75-125	
1,4-Dichlorobenzene	ug/L	20	17.6	88	75-125	
2,2-Dichloropropane	ug/L	20	17.6	88	65-125	
2-Butanone (MEK)	ug/L	100	78.1	78	61-131	
2-Chlorotoluene	ug/L	20	17.8	89	75-125	
4-Chlorotoluene	ug/L	20	18.0	90	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	82.2	82	62-142	
Acetone	ug/L	100	85.0	85	57-137	
Allyl chloride	ug/L	20	16.5	83	73-125	
Benzene	ug/L	20	17.7	89	75-125	
Bromobenzene	ug/L	20	17.7	89	75-125	
Bromochloromethane	ug/L	20	17.7	89	75-125	
Bromodichloromethane	ug/L	20	16.8	84	75-125	
Bromoform	ug/L	20	16.6	83	75-134	
Bromomethane	ug/L	20	17.8	89	32-150	
Carbon tetrachloride	ug/L	20	17.6	88	73-126	
Chlorobenzene	ug/L	20	17.4	87	75-125	
Chloroethane	ug/L	20	15.8	79	70-125	
Chloroform	ug/L	20	16.9	85	75-125	
Chloromethane	ug/L	20	16.5	82	65-125	
cis-1,2-Dichloroethene	ug/L	20	17.3	86	75-125	
cis-1,3-Dichloropropene	ug/L	20	16.8	84	75-125	
Dibromochloromethane	ug/L	20	16.8	84	75-125	
Dibromomethane	ug/L	20	17.1	85	75-125	
Dichlorodifluoromethane	ug/L	20	17.1	85	65-135	
Dichlorofluoromethane	ug/L	20	15.7	78	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.0	90	75-125	
Ethylbenzene	ug/L	20	17.8	89	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.1	100	63-128	
Isopropylbenzene (Cumene)	ug/L	20	17.8	89	75-125	
m&p-Xylene	ug/L	40	35.7	89	75-125	
Methyl-tert-butyl ether	ug/L	20	16.4	82	75-125	
Methylene Chloride	ug/L	20	16.6	83	72-125	
n-Butylbenzene	ug/L	20	18.7	93	68-125	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

LABORATORY CONTROL SAMPLE: 4687944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	19.0	95	74-125	
Naphthalene	ug/L	20	17.7	88	67-140	
o-Xylene	ug/L	20	18.0	90	75-125	
p-Isopropyltoluene	ug/L	20	19.1	96	75-126	
sec-Butylbenzene	ug/L	20	19.0	95	75-126	
Styrene	ug/L	20	18.0	90	75-139	
tert-Butylbenzene	ug/L	20	18.5	93	75-125	
Tetrachloroethene	ug/L	20	18.1	90	70-125	
Tetrahydrofuran	ug/L	100	86.0	86	63-145	
Toluene	ug/L	20	16.9	85	74-125	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	75-125	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	75-127	
Trichloroethene	ug/L	20	17.4	87	74-125	
Trichlorofluoromethane	ug/L	20	15.8	79	72-125	
Vinyl chloride	ug/L	20	17.4	87	66-125	
Xylene (Total)	ug/L	60	53.7	89	75-125	
1,2-Dichlorobenzene-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4687945 4687946

Parameter	Units	10658573010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.5	16.7	83	84	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.7	16.7	83	84	70-133	0	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.4	18.6	92	93	71-125	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.5	17.6	87	88	75-125	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	18.2	17.6	91	88	50-150	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.0	16.4	85	82	71-125	4	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.5	17.0	87	85	60-136	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.2	18.0	91	90	70-134	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	14.2	16.3	71	82	66-131	14	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	16.8	17.7	84	88	73-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.2	16.3	76	82	66-125	7	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	16.8	17.2	84	86	61-143	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	13.7	14.7	68	73	61-137	7	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.3	17.3	86	86	75-125	0	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.6	16.7	83	84	75-125	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.1	15.8	80	79	71-133	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.3	18.3	92	91	75-125	0	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	16.9	16.9	84	84	70-134	0	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.5	16.8	82	84	74-125	2	30	
1,3-Dichloropropane	ug/L	ND	20	20	17.5	17.5	88	88	75-125	0	30	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4687945 4687946											
Parameter	Units	10658573010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	20	20	16.4	16.7	82	84	75-125	2	30
2,2-Dichloropropane	ug/L	ND	20	20	14.6	13.9	73	70	52-140	5	30
2-Butanone (MEK)	ug/L	ND	100	100	80.3	81.0	80	81	57-142	1	30
2-Chlorotoluene	ug/L	ND	20	20	16.9	17.3	85	87	72-125	2	30
4-Chlorotoluene	ug/L	ND	20	20	17.0	17.2	85	86	69-128	1	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	85.4	86.2	85	86	59-149	1	30
Acetone	ug/L	ND	100	100	82.3	82.9	82	83	57-137	1	30
Allyl chloride	ug/L	ND	20	20	15.3	15.0	77	75	47-139	2	30
Benzene	ug/L	ND	20	20	17.6	17.4	88	87	66-127	1	30
Bromobenzene	ug/L	ND	20	20	17.1	17.0	86	85	74-125	1	30
Bromochloromethane	ug/L	ND	20	20	17.0	16.6	85	83	69-126	3	30
Bromodichloromethane	ug/L	ND	20	20	16.5	16.4	82	82	75-125	0	30
Bromoform	ug/L	ND	20	20	15.7	15.7	78	78	66-134	0	30
Bromomethane	ug/L	ND	20	20	17.3	16.8	86	84	30-150	3	30
Carbon tetrachloride	ug/L	ND	20	20	16.6	16.5	83	82	73-135	1	30
Chlorobenzene	ug/L	ND	20	20	16.9	17.1	84	86	75-125	1	30
Chloroethane	ug/L	ND	20	20	15.8	15.3	79	77	54-143	3	30
Chloroform	ug/L	ND	20	20	16.7	16.5	83	83	75-125	1	30
Chloromethane	ug/L	ND	20	20	15.9	15.4	80	77	52-131	3	30
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.8	16.9	89	85	72-125	5	30
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.3	16.2	81	81	73-125	0	30
Dibromochloromethane	ug/L	ND	20	20	16.1	16.5	81	83	73-125	2	30
Dibromomethane	ug/L	ND	20	20	16.6	16.6	83	83	67-129	0	30
Dichlorodifluoromethane	ug/L	ND	20	20	16.8	16.2	84	81	54-150	3	30
Dichlorofluoromethane	ug/L	ND	20	20	15.1	14.9	75	74	63-136	1	30
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	17.3	17.6	86	88	70-125	2	30
Ethylbenzene	ug/L	ND	20	20	17.1	17.2	85	86	74-128	1	30
Hexachloro-1,3-butadiene	ug/L	ND	20	20	14.8	15.4	74	77	54-133	4	30
Isopropylbenzene (Cumene)	ug/L	ND	20	20	16.7	16.9	83	84	75-129	1	30
m&p-Xylene	ug/L	ND	40	40	34.7	34.6	87	86	70-131	0	30
Methyl-tert-butyl ether	ug/L	ND	20	20	16.4	16.4	82	82	65-132	0	30
Methylene Chloride	ug/L	ND	20	20	16.5	16.5	82	83	67-125	0	30
n-Butylbenzene	ug/L	ND	20	20	16.1	16.1	81	81	64-130	0	30
n-Propylbenzene	ug/L	ND	20	20	17.9	17.6	89	88	72-127	1	30
Naphthalene	ug/L	ND	20	20	13.6	16.3	68	82	61-150	18	30
o-Xylene	ug/L	ND	20	20	17.3	17.3	86	86	75-127	0	30
p-Isopropyltoluene	ug/L	ND	20	20	16.8	17.1	84	85	71-130	2	30
sec-Butylbenzene	ug/L	ND	20	20	17.2	17.4	86	87	73-130	1	30
Styrene	ug/L	ND	20	20	17.5	17.1	88	86	73-139	2	30
tert-Butylbenzene	ug/L	ND	20	20	17.0	17.3	85	86	73-125	2	30
Tetrachloroethene	ug/L	ND	20	20	17.3	17.2	87	86	69-129	1	30
Tetrahydrofuran	ug/L	ND	100	100	82.0	82.0	82	82	63-145	0	30
Toluene	ug/L	ND	20	20	17.5	17.2	88	86	66-125	2	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.4	17.5	87	87	69-126	0	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4687945 4687946												
Parameter	Units	10658573010		MS		MSD		MS		MSD		Max
		Result		Spike	Conc.	Spike	Conc.	Result		Result		RPD
trans-1,3-Dichloropropene	ug/L	ND		20	20	15.6	15.8	78	79	75-127	2	30
Trichloroethene	ug/L	ND		20	20	17.0	16.5	85	83	69-127	3	30
Trichlorofluoromethane	ug/L	ND		20	20	15.2	14.6	76	73	58-150	4	30
Vinyl chloride	ug/L	ND		20	20	16.3	15.7	81	79	54-146	3	30
Xylene (Total)	ug/L	ND		60	60	51.9	51.9	87	86	75-126	0	30
1,2-Dichlorobenzene-d4 (S)	%							97	97	75-125		
4-Bromofluorobenzene (S)	%							99	99	75-125		
Toluene-d8 (S)	%							98	97	75-125		

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

QC Batch: 889988

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10658463001

METHOD BLANK: 4689686

Matrix: Water

Associated Lab Samples: 10658463001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/26/23 13:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/26/23 13:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/26/23 13:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/26/23 13:08	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	06/26/23 13:08	
1,1-Dichloroethane	ug/L	ND	1.0	06/26/23 13:08	
1,1-Dichloroethene	ug/L	ND	1.0	06/26/23 13:08	
1,1-Dichloropropene	ug/L	ND	1.0	06/26/23 13:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/26/23 13:08	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/26/23 13:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/26/23 13:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/26/23 13:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/26/23 13:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/26/23 13:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/26/23 13:08	
1,2-Dichloroethane	ug/L	ND	1.0	06/26/23 13:08	
1,2-Dichloropropane	ug/L	ND	1.0	06/26/23 13:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/26/23 13:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/26/23 13:08	
1,3-Dichloropropane	ug/L	ND	1.0	06/26/23 13:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/26/23 13:08	
2,2-Dichloropropane	ug/L	ND	1.0	06/26/23 13:08	
2-Butanone (MEK)	ug/L	ND	10.0	06/26/23 13:08	
2-Chlorotoluene	ug/L	ND	1.0	06/26/23 13:08	
4-Chlorotoluene	ug/L	ND	1.0	06/26/23 13:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/26/23 13:08	
Allyl chloride	ug/L	ND	2.5	06/26/23 13:08	
Benzene	ug/L	ND	1.0	06/26/23 13:08	
Bromobenzene	ug/L	ND	1.0	06/26/23 13:08	
Bromochloromethane	ug/L	ND	1.0	06/26/23 13:08	
Bromodichloromethane	ug/L	ND	1.0	06/26/23 13:08	
Bromoform	ug/L	ND	1.0	06/26/23 13:08	
Bromomethane	ug/L	ND	2.5	06/26/23 13:08	
Carbon tetrachloride	ug/L	ND	1.0	06/26/23 13:08	
Chlorobenzene	ug/L	ND	1.0	06/26/23 13:08	
Chloroethane	ug/L	ND	1.0	06/26/23 13:08	
Chloroform	ug/L	ND	1.0	06/26/23 13:08	
Chloromethane	ug/L	ND	1.0	06/26/23 13:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/26/23 13:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/26/23 13:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

METHOD BLANK: 4689686

Matrix: Water

Associated Lab Samples: 10658463001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	06/26/23 13:08	
Dibromomethane	ug/L	ND	1.0	06/26/23 13:08	
Dichlorodifluoromethane	ug/L	ND	1.0	06/26/23 13:08	
Dichlorofluoromethane	ug/L	ND	1.0	06/26/23 13:08	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	06/26/23 13:08	
Ethylbenzene	ug/L	ND	1.0	06/26/23 13:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/26/23 13:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/26/23 13:08	
m&p-Xylene	ug/L	ND	2.0	06/26/23 13:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/26/23 13:08	
Methylene Chloride	ug/L	ND	1.0	06/26/23 13:08	
n-Butylbenzene	ug/L	ND	1.0	06/26/23 13:08	
n-Propylbenzene	ug/L	ND	1.0	06/26/23 13:08	
Naphthalene	ug/L	ND	1.0	06/26/23 13:08	
o-Xylene	ug/L	ND	1.0	06/26/23 13:08	
p-Isopropyltoluene	ug/L	ND	1.0	06/26/23 13:08	
sec-Butylbenzene	ug/L	ND	1.0	06/26/23 13:08	
Styrene	ug/L	ND	1.0	06/26/23 13:08	
tert-Butylbenzene	ug/L	ND	1.0	06/26/23 13:08	
Tetrachloroethene	ug/L	ND	1.0	06/26/23 13:08	
Tetrahydrofuran	ug/L	ND	10.0	06/26/23 13:08	
Toluene	ug/L	ND	1.0	06/26/23 13:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/26/23 13:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/26/23 13:08	
Trichloroethene	ug/L	ND	1.0	06/26/23 13:08	
Trichlorofluoromethane	ug/L	ND	1.0	06/26/23 13:08	
Vinyl chloride	ug/L	ND	1.0	06/26/23 13:08	
Xylene (Total)	ug/L	ND	3.0	06/26/23 13:08	
1,2-Dichlorobenzene-d4 (S)	%	97	75-125	06/26/23 13:08	
4-Bromofluorobenzene (S)	%	98	75-125	06/26/23 13:08	
Toluene-d8 (S)	%	99	75-125	06/26/23 13:08	

LABORATORY CONTROL SAMPLE: 4689687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.6	88	75-125	
1,1,1-Trichloroethane	ug/L	20	17.5	88	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	71-125	
1,1,2-Trichloroethane	ug/L	20	18.1	90	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.5	92	69-125	
1,1-Dichloroethane	ug/L	20	17.3	86	75-125	
1,1-Dichloroethene	ug/L	20	18.1	90	69-125	
1,1-Dichloropropene	ug/L	20	18.6	93	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.0	95	70-131	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

LABORATORY CONTROL SAMPLE: 4689687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	20	17.7	89	73-125	
1,2,4-Trichlorobenzene	ug/L	20	18.7	93	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.0	90	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	16.0	80	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	17.8	89	75-125	
1,2-Dichlorobenzene	ug/L	20	17.5	87	75-125	
1,2-Dichloroethane	ug/L	20	16.3	81	75-125	
1,2-Dichloropropane	ug/L	20	18.5	93	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.2	91	75-125	
1,3-Dichlorobenzene	ug/L	20	17.6	88	75-125	
1,3-Dichloropropane	ug/L	20	18.1	90	75-125	
1,4-Dichlorobenzene	ug/L	20	17.4	87	75-125	
2,2-Dichloropropane	ug/L	20	17.9	89	65-125	
2-Butanone (MEK)	ug/L	100	81.6	82	61-131	
2-Chlorotoluene	ug/L	20	17.7	88	75-125	
4-Chlorotoluene	ug/L	20	17.8	89	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	82.2	82	62-142	
Allyl chloride	ug/L	20	16.2	81	73-125	
Benzene	ug/L	20	18.0	90	75-125	
Bromobenzene	ug/L	20	17.3	87	75-125	
Bromochloromethane	ug/L	20	17.5	88	75-125	
Bromodichloromethane	ug/L	20	17.1	86	75-125	
Bromoform	ug/L	20	17.4	87	75-134	
Bromomethane	ug/L	20	17.0	85	32-150	
Carbon tetrachloride	ug/L	20	17.8	89	73-126	
Chlorobenzene	ug/L	20	17.7	89	75-125	
Chloroethane	ug/L	20	15.1	75	70-125	
Chloroform	ug/L	20	16.9	84	75-125	
Chloromethane	ug/L	20	15.9	79	65-125	
cis-1,2-Dichloroethene	ug/L	20	17.3	86	75-125	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	75-125	
Dibromochloromethane	ug/L	20	17.0	85	75-125	
Dibromomethane	ug/L	20	17.6	88	75-125	
Dichlorodifluoromethane	ug/L	20	17.4	87	65-135	
Dichlorofluoromethane	ug/L	20	15.2	76	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	17.3	87	75-125	
Ethylbenzene	ug/L	20	17.9	89	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.1	101	63-128	
Isopropylbenzene (Cumene)	ug/L	20	18.1	90	75-125	
m&p-Xylene	ug/L	40	36.5	91	75-125	
Methyl-tert-butyl ether	ug/L	20	16.5	82	75-125	
Methylene Chloride	ug/L	20	16.6	83	72-125	
n-Butylbenzene	ug/L	20	18.4	92	68-125	
n-Propylbenzene	ug/L	20	18.7	94	74-125	
Naphthalene	ug/L	20	18.0	90	67-140	
o-Xylene	ug/L	20	18.1	90	75-125	
p-Isopropyltoluene	ug/L	20	19.1	95	75-126	

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

LABORATORY CONTROL SAMPLE: 4689687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	20	19.2	96	75-126	
Styrene	ug/L	20	18.1	90	75-139	
tert-Butylbenzene	ug/L	20	18.5	92	75-125	
Tetrachloroethene	ug/L	20	18.3	92	70-125	
Tetrahydrofuran	ug/L	100	85.5	85	63-145	
Toluene	ug/L	20	17.3	87	74-125	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	75-125	
trans-1,3-Dichloropropene	ug/L	20	17.5	88	75-127	
Trichloroethene	ug/L	20	17.9	90	74-125	
Trichlorofluoromethane	ug/L	20	15.7	79	72-125	
Vinyl chloride	ug/L	20	16.5	82	66-125	
Xylene (Total)	ug/L	60	54.6	91	75-125	
1,2-Dichlorobenzene-d4 (S)	%			96	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4689688 4689689

Parameter	Units	10658646002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.19	20	20	16.4	16.7	82	83	75-125	2	30	
1,1,1-Trichloroethane	ug/L	<0.12	20	20	17.7	18.6	89	93	70-133	5	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	20	20	17.8	18.2	89	91	71-125	2	30	
1,1,2-Trichloroethane	ug/L	<0.22	20	20	16.5	17.2	83	86	75-125	4	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.15	20	20	20.1	20.5	101	102	50-150	2	30	
1,1-Dichloroethane	ug/L	<0.11	20	20	17.5	18.1	88	91	71-125	3	30	
1,1-Dichloroethene	ug/L	<0.13	20	20	18.9	19.5	95	97	60-136	3	30	
1,1-Dichloropropene	ug/L	<0.12	20	20	18.7	19.6	94	98	70-134	5	30	
1,2,3-Trichlorobenzene	ug/L	<0.13	20	20	14.4	15.6	72	78	66-131	8	30	
1,2,3-Trichloropropane	ug/L	<0.38	20	20	17.0	17.5	85	88	73-125	3	30	
1,2,4-Trichlorobenzene	ug/L	<0.14	20	20	14.4	15.2	72	76	66-125	5	30	
1,2,4-Trimethylbenzene	ug/L	<0.13	20	20	16.3	16.5	81	82	61-143	1	30	
1,2-Dibromo-3-chloropropane	ug/L	<0.36	20	20	14.8	15.7	74	79	61-137	6	30	
1,2-Dibromoethane (EDB)	ug/L	<0.20	20	20	17.0	17.6	85	88	75-125	3	30	
1,2-Dichlorobenzene	ug/L	<0.13	20	20	15.8	16.2	79	81	75-125	3	30	
1,2-Dichloroethane	ug/L	<0.17	20	20	15.5	16.3	78	82	71-133	5	30	
1,2-Dichloropropane	ug/L	<0.15	20	20	17.7	18.6	89	93	75-125	5	30	
1,3,5-Trimethylbenzene	ug/L	<0.11	20	20	16.3	16.4	82	82	70-134	0	30	
1,3-Dichlorobenzene	ug/L	<0.12	20	20	15.8	16.3	79	81	74-125	3	30	
1,3-Dichloropropane	ug/L	<0.16	20	20	16.5	17.1	83	85	75-125	3	30	
1,4-Dichlorobenzene	ug/L	<0.15	20	20	15.6	16.0	78	80	75-125	3	30	
2,2-Dichloropropane	ug/L	<0.12	20	20	15.8	16.5	79	82	52-140	4	30	
2-Butanone (MEK)	ug/L	<0.93	100	100	82.1	79.2	82	79	57-142	4	30	
2-Chlorotoluene	ug/L	<0.098	20	20	16.2	16.7	81	84	72-125	3	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4689688 4689689											
Parameter	Units	10658646002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
4-Chlorotoluene	ug/L	<0.12	20	20	16.1	16.6	81	83	69-128	3	30
4-Methyl-2-pentanone (MIBK)	ug/L	<0.80	100	100	91.7	87.5	92	88	59-149	5	30
Allyl chloride	ug/L	<0.15	20	20	16.1	16.3	80	81	47-139	1	30
Benzene	ug/L	<0.10	20	20	17.6	18.4	88	92	66-127	4	30
Bromobenzene	ug/L	<0.12	20	20	16.0	16.6	80	83	74-125	3	30
Bromochloromethane	ug/L	<0.15	20	20	17.1	17.7	86	89	69-126	3	30
Bromodichloromethane	ug/L	<0.12	20	20	16.2	16.9	81	84	75-125	4	30
Bromoform	ug/L	<0.22	20	20	15.4	15.6	77	78	66-134	1	30
Bromomethane	ug/L	<0.38	20	20	17.3	17.8	86	89	30-150	3	30
Carbon tetrachloride	ug/L	<0.13	20	20	17.7	18.6	89	93	73-135	5	30
Chlorobenzene	ug/L	<0.13	20	20	16.5	17.2	83	86	75-125	4	30
Chloroethane	ug/L	<0.21	20	20	18.7	16.9	93	85	54-143	10	30
Chloroform	ug/L	<0.23	20	20	16.6	17.2	83	86	75-125	4	30
Chloromethane	ug/L	<0.17	20	20	18.0	17.1	90	85	52-131	5	30
cis-1,2-Dichloroethene	ug/L	<0.15	20	20	17.2	17.8	86	89	72-125	3	30
cis-1,3-Dichloropropene	ug/L	<0.057	20	20	15.5	16.4	77	82	73-125	6	30
Dibromochloromethane	ug/L	<0.20	20	20	15.7	16.0	79	80	73-125	2	30
Dibromomethane	ug/L	<0.17	20	20	16.7	17.3	83	87	67-129	4	30
Dichlorodifluoromethane	ug/L	<0.079	20	20	23.0	21.6	115	108	54-150	6	30
Dichlorofluoromethane	ug/L	<0.15	20	20	17.6	16.9	88	85	63-136	4	30
Diethyl ether (Ethyl ether)	ug/L	<0.19	20	20	16.8	17.1	84	85	70-125	1	30
Ethylbenzene	ug/L	<0.11	20	20	16.8	17.5	84	87	74-128	4	30
Hexachloro-1,3-butadiene	ug/L	<0.24	20	20	13.1	13.3	65	66	54-133	2	30
Isopropylbenzene (Cumene)	ug/L	<0.12	20	20	16.9	17.3	84	86	75-129	2	30
m&p-Xylene	ug/L	<0.20	40	40	34.5	35.9	86	90	70-131	4	30
Methyl-tert-butyl ether	ug/L	<0.13	20	20	15.6	16.2	78	81	65-132	3	30
Methylene Chloride	ug/L	<0.33	20	20	16.3	16.9	81	84	67-125	4	30
n-Butylbenzene	ug/L	<0.096	20	20	14.9	14.8	75	74	64-130	1	30
n-Propylbenzene	ug/L	<0.11	20	20	16.8	17.2	84	86	72-127	2	30
Naphthalene	ug/L	<0.18	20	20	15.1	16.8	76	84	61-150	11	30
o-Xylene	ug/L	<0.18	20	20	17.0	17.8	85	89	75-127	5	30
p-Isopropyltoluene	ug/L	<0.11	20	20	16.0	16.2	80	81	71-130	1	30
sec-Butylbenzene	ug/L	<0.097	20	20	16.4	16.4	82	82	73-130	0	30
Styrene	ug/L	<0.097	20	20	17.1	17.6	85	88	73-139	3	30
tert-Butylbenzene	ug/L	<0.091	20	20	16.0	16.3	80	82	73-125	2	30
Tetrachloroethene	ug/L	<0.10	20	20	18.1	17.9	90	90	69-129	1	30
Tetrahydrofuran	ug/L	<1.4	100	100	88.4	86.1	88	86	63-145	3	30
Toluene	ug/L	0.14J	20	20	17.1	17.7	85	88	66-125	4	30
trans-1,2-Dichloroethene	ug/L	<0.14	20	20	18.4	18.8	92	94	69-126	2	30
trans-1,3-Dichloropropene	ug/L	<0.13	20	20	15.2	15.7	76	78	75-127	3	30
Trichloroethene	ug/L	<0.12	20	20	17.0	17.8	85	89	69-127	5	30
Trichlorofluoromethane	ug/L	<0.12	20	20	18.9	19.0	94	95	58-150	1	30
Vinyl chloride	ug/L	<0.046	20	20	19.9	18.7	100	94	54-146	6	30
Xylene (Total)	ug/L	<0.20	60	60	51.5	53.7	86	89	75-126	4	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4689688 4689689												
Parameter	Units	10658646002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene-d4 (S)	%.						97	97	75-125			
4-Bromofluorobenzene (S)	%.						99	99	75-125			
Toluene-d8 (S)	%.						97	99	75-125			

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QUALITY CONTROL DATA

Project: WAKS2510C
Pace Project No.: 10658463

QC Batch:	890121	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10658463002, 10658463003, 10658463004, 10658463006, 10658463007, 10658463009, 10658463010, 10658463011, 10658463012, 10658463017, 10658463018

METHOD BLANK:	4690169	Matrix:	Water
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Associated Lab Samples: 10658463002, 10658463003, 10658463004, 10658463006, 10658463007, 10658463009, 10658463010, 10658463011, 10658463012, 10658463017, 10658463018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	1.0	06/26/23 18:17	
1,2-Dichlorobenzene-d4 (S)	%.	102	75-125	06/26/23 18:17	
4-Bromofluorobenzene (S)	%.	99	75-125	06/26/23 18:17	
Toluene-d8 (S)	%.	101	75-125	06/26/23 18:17	

LABORATORY CONTROL SAMPLE & LCSD:		4690170	4690171							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	20	20.2	18.3	101	91	67-140	10	20	
1,2-Dichlorobenzene-d4 (S)	%.				98	100	75-125			
4-Bromofluorobenzene (S)	%.				101	99	75-125			
Toluene-d8 (S)	%.				100	99	75-125			

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

QC Batch: 890664

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10658463005

METHOD BLANK: 4692866

Matrix: Water

Associated Lab Samples: 10658463005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	06/28/23 13:42	
1,2-Dichlorobenzene-d4 (S)	%.	98	75-125	06/28/23 13:42	
4-Bromofluorobenzene (S)	%.	99	75-125	06/28/23 13:42	
Toluene-d8 (S)	%.	104	75-125	06/28/23 13:42	

LABORATORY CONTROL SAMPLE & LCSD: 4692867

4692870

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	100	97.0	105	97	105	61-131	8	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	100	75-125			
4-Bromofluorobenzene (S)	%.				100	102	75-125			
Toluene-d8 (S)	%.				99	98	75-125			

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QUALITY CONTROL DATA

Project: WAKS2510C

Pace Project No.: 10658463

QC Batch: 891176

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10658463001

METHOD BLANK: 4696013

Matrix: Water

Associated Lab Samples: 10658463001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	06/30/23 20:36	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	06/30/23 20:36	
4-Bromofluorobenzene (S)	%.	100	75-125	06/30/23 20:36	
Toluene-d8 (S)	%.	100	75-125	06/30/23 20:36	

LABORATORY CONTROL SAMPLE & LCSD: 4696014

4696015

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/L	100	92.9	92.2	93	92	57-137	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	99	75-125			
4-Bromofluorobenzene (S)	%.				100	101	75-125			
Toluene-d8 (S)	%.				100	99	75-125			

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QUALIFIERS

Project: WAKS2510C

Pace Project No.: 10658463

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 889463

- [1] The continuing calibration verification was below the method acceptance limit for 1,2-dibromo-3-chloropropane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 889652

- [1] The continuing calibration verification was below the method acceptance limit for chloroethane, dichlorofluoromethane, trichlorofluoromethane, and 2-butanone (MEK). The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 889988

- [1] The continuing calibration verification was below the method acceptance limit for chloromethane, chloroethane, dichlorofluoromethane, trichlorofluoromethane, acetone, and 1,2-dibromo-3-chloropropane. The analytes were not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 890121

- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 890664

- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
[1] The continuing calibration verification was below the method acceptance limit for bromomethane. Any detection for the analyte in the associated samples may have a low bias.

Batch: 891176

- [M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALIFIERS

Project: WAKS2510C

Pace Project No.: 10658463

ANALYTE QUALIFIERS

- | | |
|----|---|
| D4 | Sample was diluted due to the presence of high levels of target analytes. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| c2 | Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether. |
| v3 | The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAKS2510C

Pace Project No.: 10658463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10658463001	FD1:G061923	EPA 8260D	889988		
10658463001	FD1:G061923	EPA 8260D	891176		
10658463002	EB1:W061723	EPA 8260D	889463		
10658463002	EB1:W061723	EPA 8260D	890121		
10658463003	EB2:W061823	EPA 8260D	889463		
10658463003	EB2:W061823	EPA 8260D	890121		
10658463004	EB3: W061923	EPA 8260D	889463		
10658463004	EB3: W061923	EPA 8260D	890121		
10658463005	MW1:G061923	EPA 8260D	889652		
10658463005	MW1:G061923	EPA 8260D	890664		
10658463006	MW2R-G061823	EPA 8260D	889463		
10658463006	MW2R-G061823	EPA 8260D	889652		
10658463006	MW2R-G061823	EPA 8260D	890121		
10658463007	MW3R-G061823	EPA 8260D	889463		
10658463007	MW3R-G061823	EPA 8260D	889652		
10658463007	MW3R-G061823	EPA 8260D	890121		
10658463008	MW4:G061723	EPA 8260D	889463		
10658463008	MW4:G061723	EPA 8260D	889652		
10658463009	MW5:G061823	EPA 8260D	889463		
10658463009	MW5:G061823	EPA 8260D	890121		
10658463010	MW6:G061823	EPA 8260D	889463		
10658463010	MW6:G061823	EPA 8260D	890121		
10658463011	MW7:G061923	EPA 8260D	889463		
10658463011	MW7:G061923	EPA 8260D	889652		
10658463011	MW7:G061923	EPA 8260D	890121		
10658463012	MW9:G061723	EPA 8260D	889463		
10658463012	MW9:G061723	EPA 8260D	890121		
10658463013	MW11:G061923	EPA 8260D	889463		
10658463013	MW11:G061923	EPA 8260D	889652		
10658463014	MW15D:G061823	EPA 8260D	889463		
10658463014	MW15D:G061823	EPA 8260D	889652		
10658463015	MW15:G061923	EPA 8260D	889463		
10658463015	MW15:G061923	EPA 8260D	889652		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WAKS2510C

Pace Project No.: 10658463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10658463016	MW13:G061823	EPA 8260D	889463		
10658463016	MW13:G061823	EPA 8260D	889652		
10658463017	MW23:G061823	EPA 8260D	889463		
10658463017	MW23:G061823	EPA 8260D	890121		
10658463018	MW101:G061823	EPA 8260D	889463		
10658463018	MW101:G061823	EPA 8260D	890121		
10658463019	Trip Blank	EPA 8260D	889652		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: THE ELAM Group	Billing Information: accounts payable @ elamusa.com
Address: 161 Lakeview Dr, Noblesville, IN	Email To: jason.oland@elamusa.com
Port To: Jason Oland	Site Collection Info/Address:
Copy To:	
Customer Project Name/Number: W9K92510C	State: WA County/City: Seattle Time Zone Collected: [] PT [] MT [] CT [] ET

Phone:	Site/Facility ID #:	Compliance Monitoring?
Mail:		☐ Yes ☐ No
Collected By (print): Alex Gabor	Purchase Order #:	DW PWS ID #:
Collected By (signature): Alex Gabor	Quote #:	DW Location Code:
Sample Disposal:	Turnaround Date Required:	Immediately Packed on Ice:
☒ Dispose as appropriate	Rush: (Expedite Charges Apply)	☒ Yes ☐ No
☐ Return	☐ Same Day ☐ Next Day	Field Filtered (if applicable):
☐ Archive:	☐ 2 Day ☐ 3 Day	☐ Yes ☒ No
☐ Hold:	☐ 4 Day ☐ 5 Day	Analysis:

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
ED1: G061923	GW	Grab	-	-	-	-		3	X
EB1: W061723	W	-	6/17	1455				3	X
EB2: W061823	W	-	6/18	1515				3	X
EB3: W061923	W	-	6/19	1341				3	X
MW1: G061923	GW	Grab	6/19	1503				3	X
MW2R: G061823	GW	Grab	6/18	1659				3	X
MW3R: G061823	GW	Grab	6/18	1603				3	X
MW4: G061723	GW	Grab	6/17	1536				3	X
MW5: G061823	GW	Grab	6/18	0956				3	X
MW6: G061823	GW	Grab	6/18	1141				3	X

Customer Remarks / Special Conditions / Possible Hazards:

MS/MSD for MW9: G061723

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:

FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: ☒ N NA
Therm ID#: **TS**
Cooler 1 Temp Upon Receipt: **20** °C
Cooler 1 Therm Corr. Factory: **0.8**
Cooler 1 Corrected Temp: **3.2** °C
Comments:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

MTJL LAB USE ONLY

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: ☒ N NA
HCL MeOH TSP Other

Non Conformance(s):
YES / NO

Page: **1**
of: **2**



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: The ELAM Group	Billing Information: accounts payable @ elamusa.com
Address: 161 Lakeview Dr, Noblesville, IN	Email To: jason.oland@elamusa.com
Port To: Jason Oland	Site Collection Info/Address:
Copy To:	

Customer Project Name/Number: WAKS 25100	State: WA / County/City: Seattle Time Zone Collected: [] PT [] MT [] CT [] ET
Phone: _____	Site/Facility ID #: _____
Mail: _____	Compliance Monitoring? [] Yes [] No
Collected By (print): Alex Gauderri	Purchase Order #: _____
Collected By (signature): Alex Gauderri	Quote #: _____
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: _____ [] Hold: _____	Turnaround Date Required: _____
	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 12 Day [] 13 Day [] 14 Day [] 15 Day
	Field Filtered (if applicable): [] Yes [X] No
	Analysis: _____

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
MW7: 6061923	GW	Grab	6/19	1101				3	X VOCs
MW9: 6061923	GW	Grab	6/19	1420				3	X
MW11: 6061923	GW	Grab	6/19	1208				3	X
MW10: 6061823	GW	Grab	6/19	0850				3	X
MW15: 6061923	GW	Grab	6/19	1324				3	X
MW13: 6061823	GW	Grab	6/18	1045				3	X
MW23: 6061823	GW	Grab	6/18	1447				3	X
MW101: 6061823	GW	Grab	6/18	1301				3	X
Tap blank	-	-	-	-				2	X

Container Preservative Type **	Lab Project Manager:
3	
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other	
Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____
	LAB USE ONLY:
	Lab Sample # / Comments:
	011
	012
	013
	014
	015
	016
	017
	018
	019

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A	LAB Sample Temperature Info:
	Packing Material Used:	Lab Tracking #:	Temp Blank Received: 6 N NA
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier	Therm ID#: 13
			Cooler 1 Temp Upon Receipt: 5.6
			Cooler 1 Therm Corr. Factor: 0.0
			Cooler 1 Corrected Temp: 3.4
			Comments:

Relinquished by/Company: (Signature) Alex Gauderri	Date/Time: 6/20/2023 1500	Received by/Company: (Signature) Fed Ex	Date/Time: 6/20/2023 624	MTJL LAB USE ONLY	Trip Blank Received: 0 N NA
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 6/20/2023 8:50	Table #:	MeOH TSP Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:	Non Conformance(s):
				Template:	YES / NO
				Prelogin:	Page: 2
				PM:	of: 2
				PB:	

Effective Date: 4/14/2023

Sample Condition Upon Receipt	Client Name: <u>The ELAM Group</u>	Project #:	WO#: 10658463 PM: RMJ Due Date: 07/06/23 CLIENT: ELAM Group
Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Speedee ☐ Commercial		☐ See Exceptions ENV-FRM-MIN4-0142	
Tracking Number: <u>6042 7237 6424</u>			
Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No		Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A	
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other <u>As</u>		Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252/1710		Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted	
Did Samples Originate in West Virginia? ☐ Yes ☒ No		Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A	
Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: <u>5.6</u> °C		Average Corrected Temp (no temp blank only): _____ °C	
Correction Factor: <u>0.2</u> Cooler Temp Corrected w/temp blank: <u>3.4</u> °C		☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container	

USDA Regulated Soil: ☒ N/A water sample/other: _____) Date/Initials of Person Examining Contents: CLZ 6/22/23

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☒ Minneapolis ☐ Virginia	COMMENTS
Chain of Custody Present and Filled Out?	☒ Yes ☐ No
Chain of Custody Relinquished?	☒ Yes ☐ No
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A
Samples Arrived within Hold Time?	☒ Yes ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No
Rush Turn Around Time Requested?	☐ Yes ☒ No
Sufficient Sample Volume?	☒ Yes ☐ No
Correct Containers Used?	☒ Yes ☐ No ☐ N/A
-Pace Containers Used?	☒ Yes ☐ No
Containers Intact?	☐ Yes ☒ No
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	☐ Yes ☐ No ☒ N/A
Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.)	☒ Yes ☐ No ☐ N/A Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐ Yes ☐ No ☒ N/A
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☒ No ☐ N/A
3 Trip Blanks Present?	☒ Yes ☐ No ☐ N/A
Trip Blank Custody Seals Present?	☒ Yes ☐ No ☐ N/A

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____

Comments/Resolution: _____

Project Manager Review: Rachel JohnsonField Data Required? ☐ Yes ☐ No

Date/Time: _____

Date: 6/22/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: CLZLine: 3



Appendix D.3

Q3 2023 Groundwater Analytical Report



October 05, 2023

Chris Sloffer
ELM Group
161 Lakeview Dr
Noblesville, IN 46060

RE: Project: Former Cherry Street Cleaners
Pace Project No.: 10670301

Dear Chris Sloffer:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Johnson".

Rachel Johnson
rachel.johnson@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW
Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

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SAMPLE SUMMARY

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10670301001	MW-1	Water	09/25/23 13:28	09/27/23 08:50
10670301002	MW-2R	Water	09/24/23 16:31	09/27/23 08:50
10670301003	MW-3R	Water	09/24/23 16:41	09/27/23 08:50
10670301004	MW-4	Water	09/23/23 14:47	09/27/23 08:50
10670301005	MW-5	Water	09/24/23 10:13	09/27/23 08:50
10670301006	MW-6	Water	09/24/23 13:23	09/27/23 08:50
10670301007	MW-7	Water	09/25/23 09:30	09/27/23 08:50
10670301008	MW-9	Water	09/23/23 13:27	09/27/23 08:50
10670301011	MW-11	Water	09/25/23 10:43	09/27/23 08:50
10670301012	MW-13	Water	09/24/23 11:35	09/27/23 08:50
10670301013	MW-15	Water	09/25/23 12:02	09/27/23 08:50
10670301014	MW-15D	Water	09/24/23 08:35	09/27/23 08:50
10670301015	MW-23	Water	09/24/23 15:04	09/27/23 08:50
10670301016	MW-101	Water	09/24/23 09:07	09/27/23 08:50
10670301017	Equipment Blank #1	Water	09/23/23 11:43	09/27/23 08:50
10670301018	Equipment Blank #2	Water	09/24/23 15:21	09/27/23 08:50
10670301019	Equipment Blank #3	Water	09/25/23 07:38	09/27/23 08:50
10670301020	Trip Blank #1	Water	09/23/23 11:40	09/27/23 08:50
10670301021	Duplicate #1	Water	09/25/23 00:00	09/27/23 08:50

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SAMPLE ANALYTE COUNT

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10670301001	MW-1	EPA 8260D	TKL	72	PASI-M
10670301002	MW-2R	EPA 8260D	TKL	72	PASI-M
10670301003	MW-3R	EPA 8260D	TKL	72	PASI-M
10670301004	MW-4	EPA 8260D	TKL	72	PASI-M
10670301005	MW-5	EPA 8260D	TKL	72	PASI-M
10670301006	MW-6	EPA 8260D	TKL	72	PASI-M
10670301007	MW-7	EPA 8260D	TKL	72	PASI-M
10670301008	MW-9	EPA 8260D	TKL	72	PASI-M
10670301011	MW-11	EPA 8260D	TKL	72	PASI-M
10670301012	MW-13	EPA 8260D	TKL	72	PASI-M
10670301013	MW-15	EPA 8260D	TKL	72	PASI-M
10670301014	MW-15D	EPA 8260D	TKL	72	PASI-M
10670301015	MW-23	EPA 8260D	TKL	72	PASI-M
10670301016	MW-101	EPA 8260D	TKL	72	PASI-M
10670301017	Equipment Blank #1	EPA 8260D	TKL	72	PASI-M
10670301018	Equipment Blank #2	EPA 8260D	TKL	72	PASI-M
10670301019	Equipment Blank #3	EPA 8260D	TKL	72	PASI-M
10670301020	Trip Blank #1	EPA 8260D	TKL	72	PASI-M
10670301021	Duplicate #1	EPA 8260D	TKL	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-1		Lab ID: 10670301001		Collected: 09/25/23 13:28		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	1860	ug/L	100	10		09/29/23 18:01	67-64-1		
Allyl chloride	ND	ug/L	25.0	10		09/29/23 18:01	107-05-1		
Benzene	ND	ug/L	10.0	10		09/29/23 18:01	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		09/29/23 18:01	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		09/29/23 18:01	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		09/29/23 18:01	75-27-4		
Bromoform	ND	ug/L	10.0	10		09/29/23 18:01	75-25-2		
Bromomethane	ND	ug/L	25.0	10		09/29/23 18:01	74-83-9		
2-Butanone (MEK)	2130	ug/L	100	10		09/29/23 18:01	78-93-3		
n-Butylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/23 18:01	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		09/29/23 18:01	108-90-7		
Chloroethane	ND	ug/L	10.0	10		09/29/23 18:01	75-00-3		
Chloroform	ND	ug/L	10.0	10		09/29/23 18:01	67-66-3		
Chloromethane	ND	ug/L	10.0	10		09/29/23 18:01	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/23 18:01	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/23 18:01	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		09/29/23 18:01	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		09/29/23 18:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/23 18:01	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		09/29/23 18:01	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/23 18:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/23 18:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/23 18:01	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/23 18:01	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/23 18:01	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/23 18:01	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		09/29/23 18:01	75-35-4		
cis-1,2-Dichloroethene	596	ug/L	10.0	10		09/29/23 18:01	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/23 18:01	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		09/29/23 18:01	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/23 18:01	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/23 18:01	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/23 18:01	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/23 18:01	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/23 18:01	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/23 18:01	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		09/29/23 18:01	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/23 18:01	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		09/29/23 18:01	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/23 18:01	99-87-6		
Methylene Chloride	ND	ug/L	10.0	10		09/29/23 18:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		09/29/23 18:01	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-1		Lab ID: 10670301001		Collected: 09/25/23 13:28		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/23 18:01	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		09/29/23 18:01	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	103-65-1		
Styrene	ND	ug/L	10.0	10		09/29/23 18:01	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/23 18:01	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/23 18:01	79-34-5		
Tetrachloroethene	339	ug/L	10.0	10		09/29/23 18:01	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		09/29/23 18:01	109-99-9		
Toluene	ND	ug/L	10.0	10		09/29/23 18:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/23 18:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/23 18:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/23 18:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/23 18:01	79-00-5		
Trichloroethene	18.8	ug/L	10.0	10		09/29/23 18:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/23 18:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	25.0	10		09/29/23 18:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		09/29/23 18:01	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		09/29/23 18:01	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		09/29/23 18:01	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		09/29/23 18:01	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		09/29/23 18:01	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		09/29/23 18:01	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	10		09/29/23 18:01	2199-69-1	D3	
4-Bromofluorobenzene (S)	103	%.	75-125	10		09/29/23 18:01	460-00-4		
Toluene-d8 (S)	102	%.	75-125	10		09/29/23 18:01	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-2R		Lab ID: 10670301002		Collected: 09/24/23 16:31		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		09/29/23 14:46	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 14:46	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 14:46	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 14:46	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 14:46	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 14:46	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 14:46	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 14:46	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 14:46	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 14:46	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 14:46	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 14:46	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 14:46	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 14:46	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 14:46	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 14:46	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 14:46	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 14:46	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 14:46	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 14:46	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 14:46	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 14:46	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 14:46	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 14:46	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 14:46	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 14:46	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 14:46	75-35-4		
cis-1,2-Dichloroethene	3.9	ug/L	1.0	1		09/29/23 14:46	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 14:46	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 14:46	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 14:46	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 14:46	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 14:46	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 14:46	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 14:46	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 14:46	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 14:46	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 14:46	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 14:46	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 14:46	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 14:46	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 14:46	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-2R		Lab ID: 10670301002		Collected: 09/24/23 16:31		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 14:46	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 14:46	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 14:46	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 14:46	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 14:46	79-34-5		
Tetrachloroethene	144	ug/L	1.0	1		09/29/23 14:46	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 14:46	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 14:46	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 14:46	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 14:46	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 14:46	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 14:46	79-00-5		
Trichloroethene	5.6	ug/L	1.0	1		09/29/23 14:46	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 14:46	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 14:46	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 14:46	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 14:46	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 14:46	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 14:46	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 14:46	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 14:46	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		09/29/23 14:46	2199-69-1		
4-Bromofluorobenzene (S)	105	%.	75-125	1		09/29/23 14:46	460-00-4		
Toluene-d8 (S)	101	%.	75-125	1		09/29/23 14:46	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-3R		Lab ID: 10670301003		Collected: 09/24/23 16:41		Received: 09/27/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		09/29/23 15:01	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 15:01	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 15:01	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 15:01	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 15:01	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 15:01	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 15:01	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 15:01	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 15:01	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 15:01	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 15:01	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 15:01	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 15:01	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 15:01	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:01	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:01	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 15:01	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 15:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 15:01	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 15:01	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:01	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 15:01	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:01	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:01	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:01	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:01	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:01	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:01	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:01	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:01	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:01	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:01	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:01	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:01	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 15:01	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 15:01	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 15:01	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 15:01	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 15:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 15:01	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-3R		Lab ID: 10670301003		Collected: 09/24/23 16:41		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 15:01	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 15:01	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 15:01	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:01	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:01	79-34-5		
Tetrachloroethene	159	ug/L	1.0	1		09/29/23 15:01	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 15:01	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 15:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:01	79-00-5		
Trichloroethene	2.3	ug/L	1.0	1		09/29/23 15:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 15:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 15:01	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:01	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 15:01	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 15:01	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 15:01	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 15:01	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		09/29/23 15:01	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 15:01	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		09/29/23 15:01	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-4		Lab ID: 10670301004		Collected: 09/23/23 14:47		Received: 09/27/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		09/29/23 15:16	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 15:16	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 15:16	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 15:16	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 15:16	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 15:16	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 15:16	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 15:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 15:16	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 15:16	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 15:16	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 15:16	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 15:16	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 15:16	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:16	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:16	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 15:16	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 15:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 15:16	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 15:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:16	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 15:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:16	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:16	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:16	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:16	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 15:16	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 15:16	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 15:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 15:16	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 15:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 15:16	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-4		Lab ID: 10670301004		Collected: 09/23/23 14:47		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 15:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 15:16	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 15:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:16	79-34-5		
Tetrachloroethene	4.2	ug/L	1.0	1		09/29/23 15:16	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 15:16	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 15:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:16	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		09/29/23 15:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:16	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 15:16	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 15:16	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:16	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 15:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 15:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 15:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 15:16	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		09/29/23 15:16	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 15:16	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		09/29/23 15:16	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-5		Lab ID: 10670301005		Collected: 09/24/23 10:13		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		09/29/23 15:31	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 15:31	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 15:31	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 15:31	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 15:31	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 15:31	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 15:31	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 15:31	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 15:31	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 15:31	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 15:31	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 15:31	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 15:31	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 15:31	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:31	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:31	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 15:31	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 15:31	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 15:31	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 15:31	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:31	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:31	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:31	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 15:31	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:31	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:31	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:31	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:31	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:31	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:31	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:31	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:31	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:31	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:31	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:31	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:31	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 15:31	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 15:31	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 15:31	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 15:31	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 15:31	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 15:31	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-5		Lab ID: 10670301005		Collected: 09/24/23 10:13		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 15:31	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 15:31	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 15:31	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:31	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:31	79-34-5		
Tetrachloroethene	70.5	ug/L	1.0	1		09/29/23 15:31	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 15:31	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 15:31	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:31	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:31	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:31	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:31	79-00-5		
Trichloroethene	1.1	ug/L	1.0	1		09/29/23 15:31	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:31	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 15:31	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 15:31	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:31	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 15:31	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 15:31	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 15:31	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 15:31	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1		09/29/23 15:31	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 15:31	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		09/29/23 15:31	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-6		Lab ID: 10670301006		Collected: 09/24/23 13:23		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		09/29/23 15:46	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 15:46	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 15:46	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 15:46	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 15:46	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 15:46	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 15:46	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 15:46	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 15:46	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 15:46	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 15:46	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 15:46	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 15:46	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 15:46	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:46	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 15:46	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 15:46	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 15:46	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 15:46	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 15:46	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:46	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:46	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:46	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 15:46	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:46	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 15:46	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:46	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:46	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 15:46	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:46	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:46	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:46	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 15:46	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:46	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:46	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 15:46	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 15:46	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 15:46	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 15:46	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 15:46	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 15:46	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 15:46	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-6		Lab ID: 10670301006		Collected: 09/24/23 13:23		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 15:46	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 15:46	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 15:46	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:46	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 15:46	79-34-5		
Tetrachloroethene	73.0	ug/L	1.0	1		09/29/23 15:46	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 15:46	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 15:46	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:46	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 15:46	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:46	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 15:46	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		09/29/23 15:46	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 15:46	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 15:46	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 15:46	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 15:46	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 15:46	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 15:46	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 15:46	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 15:46	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1		09/29/23 15:46	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 15:46	460-00-4		
Toluene-d8 (S)	101	%.	75-125	1		09/29/23 15:46	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-7		Lab ID: 10670301007		Collected: 09/25/23 09:30		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	145	ug/L	10.0	1		09/29/23 16:01	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 16:01	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 16:01	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 16:01	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 16:01	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 16:01	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 16:01	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 16:01	74-83-9		
2-Butanone (MEK)	20.1	ug/L	10.0	1		09/29/23 16:01	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 16:01	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 16:01	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 16:01	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 16:01	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 16:01	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:01	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:01	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 16:01	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 16:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 16:01	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 16:01	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:01	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 16:01	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:01	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:01	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:01	75-35-4		
cis-1,2-Dichloroethene	215	ug/L	2.0	2		10/02/23 21:23	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:01	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:01	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:01	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:01	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:01	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:01	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:01	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:01	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 16:01	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 16:01	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 16:01	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 16:01	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 16:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 16:01	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-7		Lab ID: 10670301007		Collected: 09/25/23 09:30		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 16:01	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 16:01	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 16:01	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:01	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:01	79-34-5		
Tetrachloroethene	2.5	ug/L	1.0	1		09/29/23 16:01	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 16:01	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 16:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:01	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		09/29/23 16:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 16:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 16:01	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:01	108-67-8		
Vinyl chloride	2.1	ug/L	1.0	1		09/29/23 16:01	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 16:01	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 16:01	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 16:01	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1		09/29/23 16:01	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		09/29/23 16:01	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		09/29/23 16:01	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-9		Lab ID: 10670301008		Collected: 09/23/23 13:27		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		10/03/23 14:03	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		10/03/23 14:03	107-05-1		
Benzene	ND	ug/L	1.0	1		10/03/23 14:03	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/03/23 14:03	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/03/23 14:03	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/03/23 14:03	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/03/23 14:03	75-25-2		
Bromomethane	ND	ug/L	2.5	1		10/03/23 14:03	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/23 14:03	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		10/03/23 14:03	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/03/23 14:03	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/03/23 14:03	75-00-3		
Chloroform	ND	ug/L	1.0	1		10/03/23 14:03	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/03/23 14:03	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/03/23 14:03	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/03/23 14:03	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/03/23 14:03	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/03/23 14:03	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/03/23 14:03	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/03/23 14:03	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/03/23 14:03	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/03/23 14:03	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/03/23 14:03	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/03/23 14:03	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/03/23 14:03	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/03/23 14:03	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/03/23 14:03	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/23 14:03	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/03/23 14:03	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		10/03/23 14:03	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/03/23 14:03	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/03/23 14:03	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/03/23 14:03	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/03/23 14:03	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/23 14:03	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/03/23 14:03	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		10/03/23 14:03	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/03/23 14:03	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/03/23 14:03	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/03/23 14:03	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		10/03/23 14:03	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/23 14:03	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-9		Lab ID: 10670301008		Collected: 09/23/23 13:27		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/03/23 14:03	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/03/23 14:03	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	103-65-1		
Styrene	ND	ug/L	1.0	1		10/03/23 14:03	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/23 14:03	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/03/23 14:03	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/03/23 14:03	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		10/03/23 14:03	109-99-9		
Toluene	ND	ug/L	1.0	1		10/03/23 14:03	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/03/23 14:03	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/03/23 14:03	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/03/23 14:03	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/03/23 14:03	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/03/23 14:03	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/03/23 14:03	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/03/23 14:03	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/03/23 14:03	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/03/23 14:03	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		10/03/23 14:03	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		10/03/23 14:03	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/03/23 14:03	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/03/23 14:03	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1		10/03/23 14:03	2199-69-1		
4-Bromofluorobenzene (S)	107	%.	75-125	1		10/03/23 14:03	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		10/03/23 14:03	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-11		Lab ID: 10670301011		Collected: 09/25/23 10:43		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	13.8	ug/L	10.0	1		09/29/23 16:16	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 16:16	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 16:16	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 16:16	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 16:16	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 16:16	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 16:16	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 16:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 16:16	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 16:16	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 16:16	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 16:16	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 16:16	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 16:16	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:16	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:16	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 16:16	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 16:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 16:16	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 16:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:16	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 16:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:16	75-35-4		
cis-1,2-Dichloroethene	37.7	ug/L	1.0	1		09/29/23 16:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:16	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:16	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:16	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 16:16	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 16:16	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 16:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 16:16	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 16:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 16:16	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-11		Lab ID: 10670301011		Collected: 09/25/23 10:43		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 16:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 16:16	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 16:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:16	79-34-5		
Tetrachloroethene	308	ug/L	5.0	5		10/02/23 21:53	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 16:16	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 16:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:16	79-00-5		
Trichloroethene	14.2	ug/L	1.0	1		09/29/23 16:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:16	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 16:16	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 16:16	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:16	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 16:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 16:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 16:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 16:16	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		09/29/23 16:16	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		09/29/23 16:16	460-00-4		
Toluene-d8 (S)	101	%.	75-125	1		09/29/23 16:16	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-13		Lab ID: 10670301012		Collected: 09/24/23 11:35		Received: 09/27/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		09/29/23 16:31	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 16:31	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 16:31	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 16:31	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 16:31	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 16:31	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 16:31	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 16:31	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 16:31	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 16:31	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 16:31	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 16:31	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 16:31	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 16:31	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:31	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:31	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 16:31	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 16:31	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 16:31	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 16:31	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:31	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:31	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:31	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 16:31	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:31	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:31	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:31	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:31	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:31	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:31	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:31	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:31	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:31	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:31	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:31	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:31	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 16:31	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 16:31	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 16:31	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 16:31	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 16:31	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 16:31	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-13		Lab ID: 10670301012		Collected: 09/24/23 11:35		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 16:31	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 16:31	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 16:31	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:31	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:31	79-34-5		
Tetrachloroethene	33.7	ug/L	1.0	1		09/29/23 16:31	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 16:31	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 16:31	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:31	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:31	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:31	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:31	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		09/29/23 16:31	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:31	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 16:31	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 16:31	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:31	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 16:31	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 16:31	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 16:31	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 16:31	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		09/29/23 16:31	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 16:31	460-00-4		
Toluene-d8 (S)	104	%.	75-125	1		09/29/23 16:31	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-15		Lab ID: 10670301013		Collected: 09/25/23 12:02		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		09/29/23 16:46	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 16:46	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 16:46	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 16:46	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 16:46	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 16:46	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 16:46	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 16:46	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 16:46	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 16:46	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 16:46	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 16:46	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 16:46	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 16:46	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:46	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 16:46	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 16:46	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 16:46	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 16:46	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 16:46	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:46	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:46	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:46	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 16:46	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:46	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 16:46	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:46	75-35-4		
cis-1,2-Dichloroethene	3.6	ug/L	1.0	1		09/29/23 16:46	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 16:46	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:46	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:46	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:46	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 16:46	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:46	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:46	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 16:46	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 16:46	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 16:46	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 16:46	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 16:46	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 16:46	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 16:46	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-15		Lab ID: 10670301013		Collected: 09/25/23 12:02		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 16:46	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 16:46	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 16:46	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:46	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 16:46	79-34-5		
Tetrachloroethene	719	ug/L	10.0	10		10/02/23 22:08	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 16:46	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 16:46	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:46	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 16:46	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:46	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 16:46	79-00-5		
Trichloroethene	15.8	ug/L	1.0	1		09/29/23 16:46	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 16:46	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 16:46	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 16:46	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 16:46	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 16:46	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 16:46	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 16:46	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 16:46	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		09/29/23 16:46	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		09/29/23 16:46	460-00-4		
Toluene-d8 (S)	100	%.	75-125	1		09/29/23 16:46	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-15D		Lab ID: 10670301014		Collected: 09/24/23 08:35		Received: 09/27/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		09/29/23 17:01	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 17:01	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 17:01	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 17:01	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 17:01	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 17:01	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 17:01	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 17:01	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 17:01	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 17:01	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 17:01	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 17:01	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 17:01	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 17:01	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 17:01	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 17:01	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 17:01	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 17:01	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 17:01	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 17:01	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:01	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:01	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:01	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 17:01	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 17:01	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 17:01	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:01	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:01	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:01	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 17:01	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:01	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:01	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:01	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:01	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:01	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:01	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 17:01	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 17:01	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 17:01	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 17:01	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 17:01	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 17:01	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-15D		Lab ID: 10670301014		Collected: 09/24/23 08:35		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 17:01	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 17:01	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 17:01	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 17:01	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 17:01	79-34-5		
Tetrachloroethene	13.1	ug/L	1.0	1		09/29/23 17:01	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 17:01	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 17:01	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:01	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:01	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 17:01	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 17:01	79-00-5		
Trichloroethene	1.9	ug/L	1.0	1		09/29/23 17:01	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 17:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 17:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 17:01	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 17:01	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 17:01	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 17:01	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 17:01	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 17:01	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		09/29/23 17:01	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 17:01	460-00-4		
Toluene-d8 (S)	104	%.	75-125	1		09/29/23 17:01	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-23		Lab ID: 10670301015		Collected: 09/24/23 15:04		Received: 09/27/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		09/29/23 17:16	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 17:16	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 17:16	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 17:16	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 17:16	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 17:16	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 17:16	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 17:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 17:16	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 17:16	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 17:16	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 17:16	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 17:16	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 17:16	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 17:16	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 17:16	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 17:16	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 17:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 17:16	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 17:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:16	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 17:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 17:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 17:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:16	75-35-4		
cis-1,2-Dichloroethene	38.9	ug/L	1.0	1		09/29/23 17:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:16	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 17:16	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:16	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 17:16	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 17:16	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 17:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 17:16	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 17:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 17:16	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-23		Lab ID: 10670301015		Collected: 09/24/23 15:04		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 17:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 17:16	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 17:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 17:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 17:16	79-34-5		
Tetrachloroethene	181	ug/L	2.0	2		10/02/23 21:38	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 17:16	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 17:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 17:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 17:16	79-00-5		
Trichloroethene	12.0	ug/L	1.0	1		09/29/23 17:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 17:16	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 17:16	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 17:16	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 17:16	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 17:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 17:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 17:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 17:16	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		09/29/23 17:16	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 17:16	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		09/29/23 17:16	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-101		Lab ID: 10670301016		Collected: 09/24/23 09:07		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		09/29/23 17:31	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 17:31	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 17:31	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 17:31	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 17:31	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 17:31	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 17:31	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 17:31	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 17:31	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 17:31	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 17:31	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 17:31	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 17:31	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 17:31	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 17:31	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 17:31	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 17:31	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 17:31	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 17:31	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 17:31	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:31	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:31	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:31	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 17:31	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 17:31	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 17:31	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:31	75-35-4		
cis-1,2-Dichloroethene	15.7	ug/L	1.0	1		09/29/23 17:31	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 17:31	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 17:31	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:31	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:31	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 17:31	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:31	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:31	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 17:31	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 17:31	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 17:31	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 17:31	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 17:31	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 17:31	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 17:31	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: MW-101		Lab ID: 10670301016		Collected: 09/24/23 09:07		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 17:31	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 17:31	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 17:31	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 17:31	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 17:31	79-34-5		
Tetrachloroethene	124	ug/L	1.0	1		09/29/23 17:31	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 17:31	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 17:31	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:31	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 17:31	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/23 17:31	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/23 17:31	79-00-5		
Trichloroethene	6.1	ug/L	1.0	1		09/29/23 17:31	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 17:31	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/29/23 17:31	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 17:31	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 17:31	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 17:31	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 17:31	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 17:31	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 17:31	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		09/29/23 17:31	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		09/29/23 17:31	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		09/29/23 17:31	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Equipment Blank #1		Lab ID: 10670301017		Collected: 09/23/23 11:43		Received: 09/27/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		09/29/23 13:46	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		09/29/23 13:46	107-05-1		
Benzene	ND	ug/L	1.0	1		09/29/23 13:46	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		09/29/23 13:46	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		09/29/23 13:46	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		09/29/23 13:46	75-27-4		
Bromoform	ND	ug/L	1.0	1		09/29/23 13:46	75-25-2		
Bromomethane	ND	ug/L	2.5	1		09/29/23 13:46	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		09/29/23 13:46	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/23 13:46	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		09/29/23 13:46	108-90-7		
Chloroethane	ND	ug/L	1.0	1		09/29/23 13:46	75-00-3		
Chloroform	ND	ug/L	1.0	1		09/29/23 13:46	67-66-3		
Chloromethane	ND	ug/L	1.0	1		09/29/23 13:46	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 13:46	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/23 13:46	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/29/23 13:46	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		09/29/23 13:46	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/23 13:46	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		09/29/23 13:46	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 13:46	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 13:46	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/23 13:46	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/23 13:46	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		09/29/23 13:46	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/23 13:46	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		09/29/23 13:46	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 13:46	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/23 13:46	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 13:46	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 13:46	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/23 13:46	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/23 13:46	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/23 13:46	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 13:46	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/23 13:46	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		09/29/23 13:46	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/23 13:46	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/29/23 13:46	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/23 13:46	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		09/29/23 13:46	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/29/23 13:46	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Equipment Blank #1		Lab ID: 10670301017		Collected: 09/23/23 11:43		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/23 13:46	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		09/29/23 13:46	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	103-65-1		
Styrene	ND	ug/L	1.0	1		09/29/23 13:46	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 13:46	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		09/29/23 13:46	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		09/29/23 13:46	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		09/29/23 13:46	109-99-9		
Toluene	ND	ug/L	1.0	1		09/29/23 13:46	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 13:46	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		09/29/23 13:46	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		09/29/23 13:46	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		09/29/23 13:46	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		09/29/23 13:46	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/23 13:46	75-69-4		
1,2,3- Trichloropropane	ND	ug/L	2.5	1		09/29/23 13:46	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		09/29/23 13:46	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		09/29/23 13:46	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		09/29/23 13:46	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		09/29/23 13:46	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		09/29/23 13:46	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		09/29/23 13:46	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		09/29/23 13:46	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		09/29/23 13:46	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		09/29/23 13:46	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Equipment Blank #2		Lab ID: 10670301018		Collected: 09/24/23 15:21		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		10/02/23 19:53	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		10/02/23 19:53	107-05-1		
Benzene	ND	ug/L	1.0	1		10/02/23 19:53	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/02/23 19:53	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/02/23 19:53	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/02/23 19:53	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/02/23 19:53	75-25-2		
Bromomethane	ND	ug/L	2.5	1		10/02/23 19:53	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/02/23 19:53	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/23 19:53	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/02/23 19:53	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/02/23 19:53	75-00-3		
Chloroform	ND	ug/L	1.0	1		10/02/23 19:53	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/02/23 19:53	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/23 19:53	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/23 19:53	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/02/23 19:53	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/02/23 19:53	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/23 19:53	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/02/23 19:53	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:53	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:53	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:53	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/23 19:53	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/23 19:53	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/23 19:53	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/23 19:53	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/23 19:53	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/23 19:53	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/23 19:53	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/23 19:53	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/23 19:53	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/23 19:53	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/23 19:53	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/23 19:53	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/23 19:53	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		10/02/23 19:53	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/02/23 19:53	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/23 19:53	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/23 19:53	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		10/02/23 19:53	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/02/23 19:53	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Equipment Blank #2		Lab ID: 10670301018		Collected: 09/24/23 15:21		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/23 19:53	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/02/23 19:53	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	103-65-1		
Styrene	ND	ug/L	1.0	1		10/02/23 19:53	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/23 19:53	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/23 19:53	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/02/23 19:53	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/23 19:53	109-99-9		
Toluene	ND	ug/L	1.0	1		10/02/23 19:53	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:53	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:53	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/23 19:53	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/23 19:53	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/02/23 19:53	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/23 19:53	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/02/23 19:53	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/02/23 19:53	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/23 19:53	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		10/02/23 19:53	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		10/02/23 19:53	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/02/23 19:53	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/02/23 19:53	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		10/02/23 19:53	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		10/02/23 19:53	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		10/02/23 19:53	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Equipment Blank #3		Lab ID: 10670301019		Collected: 09/25/23 07:38		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		10/02/23 20:07	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		10/02/23 20:07	107-05-1		
Benzene	ND	ug/L	1.0	1		10/02/23 20:07	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/02/23 20:07	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/02/23 20:07	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/02/23 20:07	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/02/23 20:07	75-25-2		
Bromomethane	ND	ug/L	2.5	1		10/02/23 20:07	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/02/23 20:07	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/23 20:07	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/02/23 20:07	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/02/23 20:07	75-00-3		
Chloroform	ND	ug/L	1.0	1		10/02/23 20:07	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/02/23 20:07	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/23 20:07	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/23 20:07	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/02/23 20:07	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/02/23 20:07	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/23 20:07	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/02/23 20:07	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 20:07	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 20:07	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 20:07	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/23 20:07	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/23 20:07	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/23 20:07	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/23 20:07	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/23 20:07	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/23 20:07	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/23 20:07	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/23 20:07	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/23 20:07	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/23 20:07	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/23 20:07	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/23 20:07	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/23 20:07	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		10/02/23 20:07	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/02/23 20:07	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/23 20:07	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/23 20:07	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		10/02/23 20:07	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/02/23 20:07	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Equipment Blank #3		Lab ID: 10670301019		Collected: 09/25/23 07:38		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/23 20:07	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/02/23 20:07	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	103-65-1		
Styrene	ND	ug/L	1.0	1		10/02/23 20:07	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/23 20:07	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/23 20:07	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/02/23 20:07	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/23 20:07	109-99-9		
Toluene	ND	ug/L	1.0	1		10/02/23 20:07	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/23 20:07	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/23 20:07	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/23 20:07	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/23 20:07	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/02/23 20:07	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/23 20:07	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/02/23 20:07	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/02/23 20:07	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/23 20:07	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		10/02/23 20:07	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		10/02/23 20:07	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/02/23 20:07	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/02/23 20:07	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		10/02/23 20:07	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		10/02/23 20:07	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		10/02/23 20:07	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Trip Blank #1		Lab ID: 10670301020		Collected: 09/23/23 11:40		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		10/02/23 19:23	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		10/02/23 19:23	107-05-1		
Benzene	ND	ug/L	1.0	1		10/02/23 19:23	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		10/02/23 19:23	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		10/02/23 19:23	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		10/02/23 19:23	75-27-4		
Bromoform	ND	ug/L	1.0	1		10/02/23 19:23	75-25-2		
Bromomethane	ND	ug/L	2.5	1		10/02/23 19:23	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/02/23 19:23	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/23 19:23	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		10/02/23 19:23	108-90-7		
Chloroethane	ND	ug/L	1.0	1		10/02/23 19:23	75-00-3		
Chloroform	ND	ug/L	1.0	1		10/02/23 19:23	67-66-3		
Chloromethane	ND	ug/L	1.0	1		10/02/23 19:23	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/23 19:23	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/23 19:23	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/02/23 19:23	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		10/02/23 19:23	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/23 19:23	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		10/02/23 19:23	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:23	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:23	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:23	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/23 19:23	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/23 19:23	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/23 19:23	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/23 19:23	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/23 19:23	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/23 19:23	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/23 19:23	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/23 19:23	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/23 19:23	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/23 19:23	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/23 19:23	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/23 19:23	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/23 19:23	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		10/02/23 19:23	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/02/23 19:23	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/23 19:23	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/23 19:23	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		10/02/23 19:23	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/02/23 19:23	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Trip Blank #1		Lab ID: 10670301020		Collected: 09/23/23 11:40		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/23 19:23	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		10/02/23 19:23	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	103-65-1		
Styrene	ND	ug/L	1.0	1		10/02/23 19:23	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/23 19:23	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/23 19:23	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		10/02/23 19:23	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		10/02/23 19:23	109-99-9		
Toluene	ND	ug/L	1.0	1		10/02/23 19:23	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:23	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/02/23 19:23	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/23 19:23	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/23 19:23	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		10/02/23 19:23	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/23 19:23	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/02/23 19:23	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/02/23 19:23	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/23 19:23	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		10/02/23 19:23	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		10/02/23 19:23	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		10/02/23 19:23	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		10/02/23 19:23	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		10/02/23 19:23	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		10/02/23 19:23	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		10/02/23 19:23	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Duplicate #1		Lab ID: 10670301021	Collected: 09/25/23 00:00	Received: 09/27/23 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Acetone	2750	ug/L	100	10		10/02/23 22:37	67-64-1	
Allyl chloride	ND	ug/L	25.0	10		10/02/23 22:37	107-05-1	
Benzene	ND	ug/L	10.0	10		10/02/23 22:37	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		10/02/23 22:37	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		10/02/23 22:37	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		10/02/23 22:37	75-27-4	
Bromoform	ND	ug/L	10.0	10		10/02/23 22:37	75-25-2	
Bromomethane	ND	ug/L	25.0	10		10/02/23 22:37	74-83-9	
2-Butanone (MEK)	2770	ug/L	100	10		10/02/23 22:37	78-93-3	
n-Butylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	98-06-6	
Carbon tetrachloride	ND	ug/L	10.0	10		10/02/23 22:37	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		10/02/23 22:37	108-90-7	
Chloroethane	ND	ug/L	10.0	10		10/02/23 22:37	75-00-3	
Chloroform	ND	ug/L	10.0	10		10/02/23 22:37	67-66-3	
Chloromethane	ND	ug/L	10.0	10		10/02/23 22:37	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		10/02/23 22:37	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		10/02/23 22:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		10/02/23 22:37	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		10/02/23 22:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		10/02/23 22:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		10/02/23 22:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		10/02/23 22:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		10/02/23 22:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		10/02/23 22:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		10/02/23 22:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		10/02/23 22:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		10/02/23 22:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		10/02/23 22:37	75-35-4	
cis-1,2-Dichloroethene	602	ug/L	10.0	10		10/02/23 22:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		10/02/23 22:37	156-60-5	
Dichlorofluoromethane	ND	ug/L	10.0	10		10/02/23 22:37	75-43-4	
1,2-Dichloropropane	ND	ug/L	10.0	10		10/02/23 22:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		10/02/23 22:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		10/02/23 22:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		10/02/23 22:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		10/02/23 22:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		10/02/23 22:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		10/02/23 22:37	60-29-7	
Ethylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		10/02/23 22:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		10/02/23 22:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		10/02/23 22:37	99-87-6	
Methylene Chloride	ND	ug/L	10.0	10		10/02/23 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		10/02/23 22:37	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Sample: Duplicate #1		Lab ID: 10670301021		Collected: 09/25/23 00:00		Received: 09/27/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		10/02/23 22:37	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		10/02/23 22:37	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	103-65-1		
Styrene	ND	ug/L	10.0	10		10/02/23 22:37	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		10/02/23 22:37	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		10/02/23 22:37	79-34-5		
Tetrachloroethene	333	ug/L	10.0	10		10/02/23 22:37	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		10/02/23 22:37	109-99-9		
Toluene	ND	ug/L	10.0	10		10/02/23 22:37	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		10/02/23 22:37	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		10/02/23 22:37	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		10/02/23 22:37	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		10/02/23 22:37	79-00-5		
Trichloroethene	18.3	ug/L	10.0	10		10/02/23 22:37	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		10/02/23 22:37	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	25.0	10		10/02/23 22:37	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		10/02/23 22:37	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		10/02/23 22:37	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		10/02/23 22:37	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		10/02/23 22:37	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		10/02/23 22:37	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		10/02/23 22:37	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	10		10/02/23 22:37	2199-69-1	D4	
4-Bromofluorobenzene (S)	103	%.	75-125	10		10/02/23 22:37	460-00-4		
Toluene-d8 (S)	100	%.	75-125	10		10/02/23 22:37	2037-26-5		

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

QC Batch:	909017	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10670301001, 10670301002, 10670301003, 10670301004, 10670301005, 10670301006, 10670301007, 10670301011, 10670301012, 10670301013, 10670301014, 10670301015, 10670301016, 10670301017		

METHOD BLANK: 4785533

Matrix: Water

Associated Lab Samples: 10670301001, 10670301002, 10670301003, 10670301004, 10670301005, 10670301006, 10670301007, 10670301011, 10670301012, 10670301013, 10670301014, 10670301015, 10670301016, 10670301017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/29/23 13:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/29/23 13:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/29/23 13:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/29/23 13:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	09/29/23 13:31	
1,1-Dichloroethane	ug/L	ND	1.0	09/29/23 13:31	
1,1-Dichloroethene	ug/L	ND	1.0	09/29/23 13:31	
1,1-Dichloropropene	ug/L	ND	1.0	09/29/23 13:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/29/23 13:31	
1,2,3-Trichloropropane	ug/L	ND	2.5	09/29/23 13:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/29/23 13:31	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/29/23 13:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	09/29/23 13:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/29/23 13:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/29/23 13:31	
1,2-Dichloroethane	ug/L	ND	1.0	09/29/23 13:31	
1,2-Dichloropropane	ug/L	ND	1.0	09/29/23 13:31	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/29/23 13:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/29/23 13:31	
1,3-Dichloropropane	ug/L	ND	1.0	09/29/23 13:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/29/23 13:31	
2,2-Dichloropropane	ug/L	ND	1.0	09/29/23 13:31	
2-Butanone (MEK)	ug/L	ND	10.0	09/29/23 13:31	
2-Chlorotoluene	ug/L	ND	1.0	09/29/23 13:31	
4-Chlorotoluene	ug/L	ND	1.0	09/29/23 13:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/29/23 13:31	
Acetone	ug/L	ND	10.0	09/29/23 13:31	
Allyl chloride	ug/L	ND	2.5	09/29/23 13:31	
Benzene	ug/L	ND	1.0	09/29/23 13:31	
Bromobenzene	ug/L	ND	1.0	09/29/23 13:31	
Bromochloromethane	ug/L	ND	1.0	09/29/23 13:31	
Bromodichloromethane	ug/L	ND	1.0	09/29/23 13:31	
Bromoform	ug/L	ND	1.0	09/29/23 13:31	
Bromomethane	ug/L	ND	2.5	09/29/23 13:31	
Carbon tetrachloride	ug/L	ND	1.0	09/29/23 13:31	
Chlorobenzene	ug/L	ND	1.0	09/29/23 13:31	
Chloroethane	ug/L	ND	1.0	09/29/23 13:31	
Chloroform	ug/L	ND	1.0	09/29/23 13:31	
Chloromethane	ug/L	ND	1.0	09/29/23 13:31	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

METHOD BLANK: 4785533

Matrix: Water

Associated Lab Samples: 10670301001, 10670301002, 10670301003, 10670301004, 10670301005, 10670301006, 10670301007, 10670301011, 10670301012, 10670301013, 10670301014, 10670301015, 10670301016, 10670301017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/29/23 13:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/29/23 13:31	
Dibromochloromethane	ug/L	ND	1.0	09/29/23 13:31	
Dibromomethane	ug/L	ND	1.0	09/29/23 13:31	
Dichlorodifluoromethane	ug/L	ND	1.0	09/29/23 13:31	
Dichlorofluoromethane	ug/L	ND	1.0	09/29/23 13:31	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	09/29/23 13:31	
Ethylbenzene	ug/L	ND	1.0	09/29/23 13:31	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/29/23 13:31	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/29/23 13:31	
m&p-Xylene	ug/L	ND	2.0	09/29/23 13:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/29/23 13:31	
Methylene Chloride	ug/L	ND	1.0	09/29/23 13:31	
n-Butylbenzene	ug/L	ND	1.0	09/29/23 13:31	
n-Propylbenzene	ug/L	ND	1.0	09/29/23 13:31	
Naphthalene	ug/L	ND	1.0	09/29/23 13:31	
o-Xylene	ug/L	ND	1.0	09/29/23 13:31	
p-Isopropyltoluene	ug/L	ND	1.0	09/29/23 13:31	
sec-Butylbenzene	ug/L	ND	1.0	09/29/23 13:31	
Styrene	ug/L	ND	1.0	09/29/23 13:31	
tert-Butylbenzene	ug/L	ND	1.0	09/29/23 13:31	
Tetrachloroethene	ug/L	ND	1.0	09/29/23 13:31	
Tetrahydrofuran	ug/L	ND	10.0	09/29/23 13:31	
Toluene	ug/L	ND	1.0	09/29/23 13:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/29/23 13:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/29/23 13:31	
Trichloroethene	ug/L	ND	1.0	09/29/23 13:31	
Trichlorofluoromethane	ug/L	ND	1.0	09/29/23 13:31	
Vinyl chloride	ug/L	ND	1.0	09/29/23 13:31	
Xylene (Total)	ug/L	ND	3.0	09/29/23 13:31	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	09/29/23 13:31	
4-Bromofluorobenzene (S)	%	105	75-125	09/29/23 13:31	
Toluene-d8 (S)	%	103	75-125	09/29/23 13:31	

LABORATORY CONTROL SAMPLE: 4785534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	93	75-125	
1,1,1-Trichloroethane	ug/L	20	18.8	94	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	71-125	
1,1,2-Trichloroethane	ug/L	20	19.0	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.5	97	69-125	
1,1-Dichloroethane	ug/L	20	17.6	88	75-125	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

LABORATORY CONTROL SAMPLE: 4785534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	17.9	89	69-125	
1,1-Dichloropropene	ug/L	20	19.4	97	74-125	
1,2,3-Trichlorobenzene	ug/L	20	17.2	86	70-131	
1,2,3-Trichloropropane	ug/L	20	17.7	88	73-125	
1,2,4-Trichlorobenzene	ug/L	20	17.3	86	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.3	91	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	18.2	91	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	75-125	
1,2-Dichlorobenzene	ug/L	20	17.4	87	75-125	
1,2-Dichloroethane	ug/L	20	19.3	96	75-125	
1,2-Dichloropropane	ug/L	20	18.5	92	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.3	92	75-125	
1,3-Dichlorobenzene	ug/L	20	17.9	90	75-125	
1,3-Dichloropropane	ug/L	20	18.7	94	75-125	
1,4-Dichlorobenzene	ug/L	20	17.8	89	75-125	
2,2-Dichloropropane	ug/L	20	19.1	96	65-125	
2-Butanone (MEK)	ug/L	100	97.5	97	61-131	
2-Chlorotoluene	ug/L	20	17.7	88	75-125	
4-Chlorotoluene	ug/L	20	18.2	91	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.0	98	62-142	
Acetone	ug/L	100	93.1	93	57-137	
Allyl chloride	ug/L	20	18.3	91	73-125	
Benzene	ug/L	20	18.0	90	75-125	
Bromobenzene	ug/L	20	17.8	89	75-125	
Bromochloromethane	ug/L	20	18.6	93	75-125	
Bromodichloromethane	ug/L	20	19.1	95	75-125	
Bromoform	ug/L	20	17.5	87	75-134	
Bromomethane	ug/L	20	17.8	89	32-150	
Carbon tetrachloride	ug/L	20	19.1	95	73-126	
Chlorobenzene	ug/L	20	17.5	87	75-125	
Chloroethane	ug/L	20	21.9	110	70-125	
Chloroform	ug/L	20	18.6	93	75-125	
Chloromethane	ug/L	20	21.7	108	65-125	
cis-1,2-Dichloroethene	ug/L	20	18.3	92	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	75-125	
Dibromochloromethane	ug/L	20	17.9	90	75-125	
Dibromomethane	ug/L	20	17.6	88	75-125	
Dichlorodifluoromethane	ug/L	20	23.1	116	65-135	
Dichlorofluoromethane	ug/L	20	19.9	99	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.0	90	75-125	
Ethylbenzene	ug/L	20	18.4	92	75-125	
Hexachloro-1,3-butadiene	ug/L	20	17.9	90	63-128	
Isopropylbenzene (Cumene)	ug/L	20	19.0	95	75-125	
m&p-Xylene	ug/L	40	36.8	92	75-125	
Methyl-tert-butyl ether	ug/L	20	19.4	97	75-125	
Methylene Chloride	ug/L	20	17.6	88	72-125	
n-Butylbenzene	ug/L	20	19.1	95	68-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

LABORATORY CONTROL SAMPLE: 4785534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	18.5	92	74-125	
Naphthalene	ug/L	20	17.3	87	67-140	
o-Xylene	ug/L	20	18.5	93	75-125	
p-Isopropyltoluene	ug/L	20	18.5	93	75-126	
sec-Butylbenzene	ug/L	20	18.8	94	75-126	
Styrene	ug/L	20	18.5	93	75-139	
tert-Butylbenzene	ug/L	20	18.1	90	75-125	
Tetrachloroethene	ug/L	20	17.8	89	70-125	
Tetrahydrofuran	ug/L	100	94.7	95	63-145	
Toluene	ug/L	20	17.7	89	74-125	
trans-1,2-Dichloroethene	ug/L	20	17.3	87	75-125	
trans-1,3-Dichloropropene	ug/L	20	18.9	94	75-127	
Trichloroethene	ug/L	20	17.7	89	74-125	
Trichlorofluoromethane	ug/L	20	21.6	108	72-125	
Vinyl chloride	ug/L	20	22.1	110	66-125	
Xylene (Total)	ug/L	60	55.3	92	75-125	
1,2-Dichlorobenzene-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4785535 4785536

Parameter	Units	10670768001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	189	201	94	100	75-125	6	30	
1,1,1-Trichloroethane	ug/L	ND	200	200	194	198	97	99	70-133	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	204	213	102	106	71-125	4	30	
1,1,2-Trichloroethane	ug/L	ND	200	200	232	240	116	120	75-125	3	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	200	200	200	207	100	103	50-150	3	30	
1,1-Dichloroethane	ug/L	ND	200	200	184	186	92	93	71-125	1	30	
1,1-Dichloroethene	ug/L	ND	200	200	186	186	93	93	60-136	0	30	
1,1-Dichloropropene	ug/L	ND	200	200	198	204	99	102	70-134	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	175	186	87	93	66-131	6	30	
1,2,3-Trichloropropane	ug/L	ND	200	200	189	194	94	97	73-125	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	176	188	88	94	66-125	7	30	
1,2,4-Trimethylbenzene	ug/L	136	200	200	347	354	106	109	61-143	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	188	180	94	90	61-137	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	192	198	96	99	75-125	3	30	
1,2-Dichlorobenzene	ug/L	ND	200	200	178	180	89	90	75-125	1	30	
1,2-Dichloroethane	ug/L	ND	200	200	199	200	100	100	71-133	1	30	
1,2-Dichloropropane	ug/L	ND	200	200	197	197	99	98	75-125	0	30	
1,3,5-Trimethylbenzene	ug/L	63.3	200	200	267	277	102	107	70-134	4	30	
1,3-Dichlorobenzene	ug/L	ND	200	200	183	191	91	95	74-125	4	30	
1,3-Dichloropropane	ug/L	ND	200	200	196	203	98	102	75-125	4	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			4785535		4785536							
		10670768001	MS	MSD								
Parameter	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	200	200	181	186	91	93	75-125	3	30	
2,2-Dichloropropane	ug/L	ND	200	200	183	184	91	92	52-140	1	30	
2-Butanone (MEK)	ug/L	ND	1000	1000	932	997	93	100	57-142	7	30	
2-Chlorotoluene	ug/L	ND	200	200	228	241	114	120	72-125	5	30	
4-Chlorotoluene	ug/L	ND	200	200	194	207	97	104	69-128	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	1040	1050	104	105	59-149	1	30	
Acetone	ug/L	ND	1000	1000	809	913	81	91	57-137	12	30	
Allyl chloride	ug/L	ND	200	200	185	194	92	97	47-139	5	30	
Benzene	ug/L	ND	200	200	185	189	92	95	66-127	2	30	
Bromobenzene	ug/L	ND	200	200	183	193	91	96	74-125	5	30	
Bromochloromethane	ug/L	ND	200	200	189	194	94	97	69-126	3	30	
Bromodichloromethane	ug/L	ND	200	200	193	202	97	101	75-125	4	30	
Bromoform	ug/L	ND	200	200	173	181	86	91	66-134	5	30	
Bromomethane	ug/L	ND	200	200	188	192	94	96	30-150	2	30	
Carbon tetrachloride	ug/L	ND	200	200	193	199	96	100	73-135	3	30	
Chlorobenzene	ug/L	ND	200	200	183	185	92	92	75-125	1	30	
Chloroethane	ug/L	ND	200	200	230	235	115	117	54-143	2	30	
Chloroform	ug/L	ND	200	200	195	200	97	100	75-125	3	30	
Chloromethane	ug/L	ND	200	200	226	230	113	115	52-131	2	30	
cis-1,2-Dichloroethene	ug/L	ND	200	200	185	191	93	95	72-125	3	30	
cis-1,3-Dichloropropene	ug/L	ND	200	200	187	192	94	96	73-125	3	30	
Dibromochloromethane	ug/L	ND	200	200	180	188	90	94	73-125	5	30	
Dibromomethane	ug/L	ND	200	200	179	184	89	92	67-129	3	30	
Dichlorodifluoromethane	ug/L	ND	200	200	237	240	118	120	54-150	1	30	
Dichlorofluoromethane	ug/L	ND	200	200	208	210	104	105	63-136	1	30	
Diethyl ether (Ethyl ether)	ug/L	ND	200	200	188	189	94	94	70-125	0	30	
Ethylbenzene	ug/L	19.3	200	200	212	216	96	98	74-128	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	167	176	83	88	54-133	6	30	
Isopropylbenzene (Cumene)	ug/L	33.3	200	200	234	239	100	103	75-129	2	30	
m&p-Xylene	ug/L	88.3	400	400	487	497	100	102	70-131	2	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	197	203	98	101	65-132	3	30	
Methylene Chloride	ug/L	ND	200	200	187	192	94	96	67-125	2	30	
n-Butylbenzene	ug/L	16.3	200	200	216	208	100	96	64-130	4	30	
n-Propylbenzene	ug/L	24.8	200	200	216	228	96	102	72-127	5	30	
Naphthalene	ug/L	79.4	200	200	274	279	97	100	61-150	2	30	
o-Xylene	ug/L	21.5	200	200	215	220	97	99	75-127	2	30	
p-Isopropyltoluene	ug/L	16.4	200	200	207	211	95	98	71-130	2	30	
sec-Butylbenzene	ug/L	10.8	200	200	203	207	96	98	73-130	2	30	
Styrene	ug/L	ND	200	200	192	200	96	100	73-139	4	30	
tert-Butylbenzene	ug/L	ND	200	200	190	193	95	96	73-125	1	30	
Tetrachloroethene	ug/L	ND	200	200	187	184	93	91	69-129	1	30	
Tetrahydrofuran	ug/L	ND	1000	1000	910	952	91	95	63-145	5	30	
Toluene	ug/L	ND	200	200	184	185	91	92	66-125	1	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	176	187	88	93	69-126	6	30	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4785535 4785536												
Parameter	Units	10670768001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
trans-1,3-Dichloropropene	ug/L	ND	200	200	191	197	96	98	75-127	3	30	
Trichloroethene	ug/L	ND	200	200	184	184	92	92	69-127	0	30	
Trichlorofluoromethane	ug/L	ND	200	200	230	238	115	119	58-150	3	30	
Vinyl chloride	ug/L	ND	200	200	229	234	115	117	54-146	2	30	
Xylene (Total)	ug/L	110	600	600	703	717	99	101	75-126	2	30	
1,2-Dichlorobenzene-d4 (S)	%						100	98	75-125			
4-Bromofluorobenzene (S)	%						104	103	75-125			
Toluene-d8 (S)	%						101	101	75-125			

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

QC Batch:	909349	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10670301007, 10670301011, 10670301013, 10670301015, 10670301018, 10670301019, 10670301020, 10670301021

METHOD BLANK: 4787481 Matrix: Water

Associated Lab Samples: 10670301007, 10670301011, 10670301013, 10670301015, 10670301018, 10670301019, 10670301020, 10670301021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/02/23 19:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/02/23 19:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/02/23 19:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/02/23 19:08	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/02/23 19:08	
1,1-Dichloroethane	ug/L	ND	1.0	10/02/23 19:08	
1,1-Dichloroethene	ug/L	ND	1.0	10/02/23 19:08	
1,1-Dichloropropene	ug/L	ND	1.0	10/02/23 19:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/02/23 19:08	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/02/23 19:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/02/23 19:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/02/23 19:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/02/23 19:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/02/23 19:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/02/23 19:08	
1,2-Dichloroethane	ug/L	ND	1.0	10/02/23 19:08	
1,2-Dichloropropane	ug/L	ND	1.0	10/02/23 19:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/02/23 19:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/02/23 19:08	
1,3-Dichloropropane	ug/L	ND	1.0	10/02/23 19:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/02/23 19:08	
2,2-Dichloropropane	ug/L	ND	1.0	10/02/23 19:08	
2-Butanone (MEK)	ug/L	ND	10.0	10/02/23 19:08	
2-Chlorotoluene	ug/L	ND	1.0	10/02/23 19:08	
4-Chlorotoluene	ug/L	ND	1.0	10/02/23 19:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/02/23 19:08	
Acetone	ug/L	ND	10.0	10/02/23 19:08	
Allyl chloride	ug/L	ND	2.5	10/02/23 19:08	
Benzene	ug/L	ND	1.0	10/02/23 19:08	
Bromobenzene	ug/L	ND	1.0	10/02/23 19:08	
Bromochloromethane	ug/L	ND	1.0	10/02/23 19:08	
Bromodichloromethane	ug/L	ND	1.0	10/02/23 19:08	
Bromoform	ug/L	ND	1.0	10/02/23 19:08	
Bromomethane	ug/L	ND	2.5	10/02/23 19:08	
Carbon tetrachloride	ug/L	ND	1.0	10/02/23 19:08	
Chlorobenzene	ug/L	ND	1.0	10/02/23 19:08	
Chloroethane	ug/L	ND	1.0	10/02/23 19:08	
Chloroform	ug/L	ND	1.0	10/02/23 19:08	
Chloromethane	ug/L	ND	1.0	10/02/23 19:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

METHOD BLANK: 4787481

Matrix: Water

Associated Lab Samples: 10670301007, 10670301011, 10670301013, 10670301015, 10670301018, 10670301019, 10670301020, 10670301021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/02/23 19:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/02/23 19:08	
Dibromochloromethane	ug/L	ND	1.0	10/02/23 19:08	
Dibromomethane	ug/L	ND	1.0	10/02/23 19:08	
Dichlorodifluoromethane	ug/L	ND	1.0	10/02/23 19:08	
Dichlorofluoromethane	ug/L	ND	1.0	10/02/23 19:08	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	10/02/23 19:08	
Ethylbenzene	ug/L	ND	1.0	10/02/23 19:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/02/23 19:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/02/23 19:08	
m&p-Xylene	ug/L	ND	2.0	10/02/23 19:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/02/23 19:08	
Methylene Chloride	ug/L	ND	1.0	10/02/23 19:08	
n-Butylbenzene	ug/L	ND	1.0	10/02/23 19:08	
n-Propylbenzene	ug/L	ND	1.0	10/02/23 19:08	
Naphthalene	ug/L	ND	1.0	10/02/23 19:08	
o-Xylene	ug/L	ND	1.0	10/02/23 19:08	
p-Isopropyltoluene	ug/L	ND	1.0	10/02/23 19:08	
sec-Butylbenzene	ug/L	ND	1.0	10/02/23 19:08	
Styrene	ug/L	ND	1.0	10/02/23 19:08	
tert-Butylbenzene	ug/L	ND	1.0	10/02/23 19:08	
Tetrachloroethene	ug/L	ND	1.0	10/02/23 19:08	
Tetrahydrofuran	ug/L	ND	10.0	10/02/23 19:08	
Toluene	ug/L	ND	1.0	10/02/23 19:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/02/23 19:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/02/23 19:08	
Trichloroethene	ug/L	ND	1.0	10/02/23 19:08	
Trichlorofluoromethane	ug/L	ND	1.0	10/02/23 19:08	
Vinyl chloride	ug/L	ND	1.0	10/02/23 19:08	
Xylene (Total)	ug/L	ND	3.0	10/02/23 19:08	
1,2-Dichlorobenzene-d4 (S)	%	101	75-125	10/02/23 19:08	
4-Bromofluorobenzene (S)	%	104	75-125	10/02/23 19:08	
Toluene-d8 (S)	%	103	75-125	10/02/23 19:08	

LABORATORY CONTROL SAMPLE: 4787482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	75-125	
1,1,1-Trichloroethane	ug/L	20	19.3	96	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	71-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.6	93	69-125	
1,1-Dichloroethane	ug/L	20	18.1	91	75-125	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

LABORATORY CONTROL SAMPLE: 4787482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	18.0	90	69-125	
1,1-Dichloropropene	ug/L	20	19.0	95	74-125	
1,2,3-Trichlorobenzene	ug/L	20	17.6	88	70-131	
1,2,3-Trichloropropane	ug/L	20	18.0	90	73-125	
1,2,4-Trichlorobenzene	ug/L	20	17.3	87	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.6	93	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.3	96	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	75-125	
1,2-Dichlorobenzene	ug/L	20	18.0	90	75-125	
1,2-Dichloroethane	ug/L	20	19.9	99	75-125	
1,2-Dichloropropane	ug/L	20	18.8	94	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	75-125	
1,3-Dichlorobenzene	ug/L	20	18.4	92	75-125	
1,3-Dichloropropane	ug/L	20	19.7	98	75-125	
1,4-Dichlorobenzene	ug/L	20	18.2	91	75-125	
2,2-Dichloropropane	ug/L	20	16.6	83	65-125	
2-Butanone (MEK)	ug/L	100	96.3	96	61-131	
2-Chlorotoluene	ug/L	20	18.4	92	75-125	
4-Chlorotoluene	ug/L	20	18.6	93	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.9	97	62-142	
Acetone	ug/L	100	87.9	88	57-137	
Allyl chloride	ug/L	20	18.2	91	73-125	
Benzene	ug/L	20	18.1	91	75-125	
Bromobenzene	ug/L	20	18.2	91	75-125	
Bromochloromethane	ug/L	20	18.8	94	75-125	
Bromodichloromethane	ug/L	20	20.2	101	75-125	
Bromoform	ug/L	20	18.5	93	75-134	
Bromomethane	ug/L	20	17.8	89	32-150	
Carbon tetrachloride	ug/L	20	19.3	97	73-126	
Chlorobenzene	ug/L	20	18.1	90	75-125	
Chloroethane	ug/L	20	21.0	105	70-125	
Chloroform	ug/L	20	19.2	96	75-125	
Chloromethane	ug/L	20	20.5	103	65-125	
cis-1,2-Dichloroethene	ug/L	20	18.5	92	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.9	94	75-125	
Dibromochloromethane	ug/L	20	18.8	94	75-125	
Dibromomethane	ug/L	20	18.1	91	75-125	
Dichlorodifluoromethane	ug/L	20	20.3	102	65-135	
Dichlorofluoromethane	ug/L	20	19.7	99	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.1	90	75-125	
Ethylbenzene	ug/L	20	18.8	94	75-125	
Hexachloro-1,3-butadiene	ug/L	20	16.4	82	63-128	
Isopropylbenzene (Cumene)	ug/L	20	19.6	98	75-125	
m&p-Xylene	ug/L	40	38.1	95	75-125	
Methyl-tert-butyl ether	ug/L	20	19.5	98	75-125	
Methylene Chloride	ug/L	20	18.5	93	72-125	
n-Butylbenzene	ug/L	20	18.4	92	68-125	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

LABORATORY CONTROL SAMPLE: 4787482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	18.7	94	74-125	
Naphthalene	ug/L	20	17.7	89	67-140	
o-Xylene	ug/L	20	18.9	95	75-125	
p-Isopropyltoluene	ug/L	20	18.5	93	75-126	
sec-Butylbenzene	ug/L	20	18.7	93	75-126	
Styrene	ug/L	20	19.5	98	75-139	
tert-Butylbenzene	ug/L	20	18.2	91	75-125	
Tetrachloroethene	ug/L	20	17.7	88	70-125	
Tetrahydrofuran	ug/L	100	94.4	94	63-145	
Toluene	ug/L	20	18.1	91	74-125	
trans-1,2-Dichloroethene	ug/L	20	17.6	88	75-125	
trans-1,3-Dichloropropene	ug/L	20	19.1	95	75-127	
Trichloroethene	ug/L	20	18.3	92	74-125	
Trichlorofluoromethane	ug/L	20	20.3	101	72-125	
Vinyl chloride	ug/L	20	20.0	100	66-125	
Xylene (Total)	ug/L	60	57.0	95	75-125	
1,2-Dichlorobenzene-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			106	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4787483 4787484

Parameter	Units	10670457004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	40	40	39.9	40.4	100	101	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	40	40	38.8	39.8	97	100	70-133	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	40	40	43.8	43.6	110	109	71-125	1	30	
1,1,2-Trichloroethane	ug/L	ND	40	40	87.1	87.3	218	218	75-125	0	30	M1
1,1,2-Trichlorotrifluoroethane	ug/L	ND	40	40	40.0	39.7	100	99	50-150	1	30	
1,1-Dichloroethane	ug/L	ND	40	40	36.5	37.0	91	92	71-125	1	30	
1,1-Dichloroethene	ug/L	ND	40	40	36.5	36.3	91	91	60-136	1	30	
1,1-Dichloropropene	ug/L	ND	40	40	39.0	39.5	98	99	70-134	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	40	40	35.5	37.1	89	93	66-131	4	30	
1,2,3-Trichloropropane	ug/L	ND	40	40	41.9	41.1	105	103	73-125	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	40	40	36.2	36.8	91	92	66-125	1	30	
1,2,4-Trimethylbenzene	ug/L	137	40	40	184	183	118	116	61-143	0	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	40	40	46.2	49.7	115	124	61-137	7	30	
1,2-Dibromoethane (EDB)	ug/L	ND	40	40	41.6	42.2	104	105	75-125	1	30	
1,2-Dichlorobenzene	ug/L	ND	40	40	37.1	37.0	93	93	75-125	0	30	
1,2-Dichloroethane	ug/L	ND	40	40	40.8	40.7	102	102	71-133	0	30	
1,2-Dichloropropane	ug/L	ND	40	40	44.3	44.8	111	112	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	64.8	40	40	109	109	111	109	70-134	1	30	
1,3-Dichlorobenzene	ug/L	ND	40	40	38.4	38.3	96	96	74-125	0	30	
1,3-Dichloropropane	ug/L	ND	40	40	41.0	41.1	102	103	75-125	0	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4787483 4787484											
Parameter	Units	10670457004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	40	40	36.9	37.0	92	92	75-125	0	30
2,2-Dichloropropane	ug/L	ND	40	40	35.5	36.5	89	91	52-140	3	30
2-Butanone (MEK)	ug/L	ND	200	200	245	243	123	122	57-142	1	30
2-Chlorotoluene	ug/L	ND	40	40	79.2	79.4	198	198	72-125	0	30 M1
4-Chlorotoluene	ug/L	ND	40	40	46.3	46.6	116	117	69-128	1	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	235	231	117	116	59-149	1	30
Acetone	ug/L	ND	200	200	243	245	121	122	57-137	1	30
Allyl chloride	ug/L	ND	40	40	35.4	36.3	89	91	47-139	2	30
Benzene	ug/L	ND	40	40	37.0	37.1	93	93	66-127	0	30
Bromobenzene	ug/L	ND	40	40	38.6	38.0	97	95	74-125	2	30
Bromochloromethane	ug/L	ND	40	40	37.5	37.7	94	94	69-126	0	30
Bromodichloromethane	ug/L	ND	40	40	41.5	41.9	104	105	75-125	1	30
Bromoform	ug/L	ND	40	40	37.5	39.1	94	98	66-134	4	30
Bromomethane	ug/L	ND	40	40	30.9	31.4	77	79	30-150	2	30
Carbon tetrachloride	ug/L	ND	40	40	38.1	39.4	95	99	73-135	3	30
Chlorobenzene	ug/L	ND	40	40	37.1	37.6	93	94	75-125	1	30
Chloroethane	ug/L	ND	40	40	41.5	43.2	104	108	54-143	4	30
Chloroform	ug/L	ND	40	40	40.8	40.9	102	102	75-125	0	30
Chloromethane	ug/L	ND	40	40	39.7	39.7	99	99	52-131	0	30
cis-1,2-Dichloroethene	ug/L	ND	40	40	37.2	37.2	93	93	72-125	0	30
cis-1,3-Dichloropropene	ug/L	ND	40	40	38.2	39.1	96	98	73-125	2	30
Dibromochloromethane	ug/L	ND	40	40	38.2	39.3	96	98	73-125	3	30
Dibromomethane	ug/L	ND	40	40	36.6	37.2	91	93	67-129	2	30
Dichlorodifluoromethane	ug/L	ND	40	40	44.1	44.4	110	111	54-150	1	30
Dichlorofluoromethane	ug/L	ND	40	40	40.2	40.7	101	102	63-136	1	30
Diethyl ether (Ethyl ether)	ug/L	ND	40	40	36.5	38.3	91	96	70-125	5	30
Ethylbenzene	ug/L	20.1	40	40	58.8	59.6	97	99	74-128	1	30
Hexachloro-1,3-butadiene	ug/L	ND	40	40	30.1	31.4	75	79	54-133	4	30
Isopropylbenzene (Cumene)	ug/L	35.7	40	40	78.7	79.8	108	110	75-129	1	30
m&p-Xylene	ug/L	92.7	80	80	170	170	97	97	70-131	0	30
Methyl-tert-butyl ether	ug/L	ND	40	40	40.9	41.5	102	104	65-132	1	30
Methylene Chloride	ug/L	ND	40	40	26.9	28.0	67	70	67-125	4	30
n-Butylbenzene	ug/L	21.4	40	40	60.9	61.9	99	101	64-130	2	30
n-Propylbenzene	ug/L	25.5	40	40	66.2	66.3	102	102	72-127	0	30
Naphthalene	ug/L	80.4	40	40	122	123	105	105	61-150	0	30
o-Xylene	ug/L	22.4	40	40	60.9	61.2	96	97	75-127	1	30
p-Isopropyltoluene	ug/L	15.8	40	40	57.1	57.4	103	104	71-130	1	30
sec-Butylbenzene	ug/L	11.4	40	40	51.9	52.0	101	101	73-130	0	30
Styrene	ug/L	ND	40	40	40.1	40.3	100	101	73-139	1	30
tert-Butylbenzene	ug/L	ND	40	40	38.4	38.8	94	95	73-125	1	30
Tetrachloroethene	ug/L	ND	40	40	37.9	37.8	94	94	69-129	0	30
Tetrahydrofuran	ug/L	ND	200	200	231	237	115	118	63-145	3	30
Toluene	ug/L	ND	40	40	36.7	36.8	91	91	66-125	0	30
trans-1,2-Dichloroethene	ug/L	ND	40	40	35.3	35.4	88	88	69-126	0	30

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4787483 4787484												
Parameter	Units	10670457004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,3-Dichloropropene	ug/L	ND	40	40	40.3	40.8	101	102	75-127	1	30	
Trichloroethene	ug/L	ND	40	40	36.2	37.2	90	93	69-127	3	30	
Trichlorofluoromethane	ug/L	ND	40	40	44.2	44.9	110	112	58-150	2	30	
Vinyl chloride	ug/L	ND	40	40	40.8	41.9	102	105	54-146	3	30	
Xylene (Total)	ug/L	115	120	120	231	232	96	97	75-126	0	30	
1,2-Dichlorobenzene-d4 (S)	%						99	99	75-125			D4
4-Bromofluorobenzene (S)	%						106	106	75-125			
Toluene-d8 (S)	%						103	102	75-125			

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

QC Batch: 909566

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10670301008

METHOD BLANK: 4788399

Matrix: Water

Associated Lab Samples: 10670301008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/03/23 13:17	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/03/23 13:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/03/23 13:17	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/03/23 13:17	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/03/23 13:17	
1,1-Dichloroethane	ug/L	ND	1.0	10/03/23 13:17	
1,1-Dichloroethene	ug/L	ND	1.0	10/03/23 13:17	
1,1-Dichloropropene	ug/L	ND	1.0	10/03/23 13:17	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/03/23 13:17	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/03/23 13:17	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/03/23 13:17	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/03/23 13:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/03/23 13:17	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/03/23 13:17	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/03/23 13:17	
1,2-Dichloroethane	ug/L	ND	1.0	10/03/23 13:17	
1,2-Dichloropropane	ug/L	ND	1.0	10/03/23 13:17	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/03/23 13:17	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/03/23 13:17	
1,3-Dichloropropane	ug/L	ND	1.0	10/03/23 13:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/03/23 13:17	
2,2-Dichloropropane	ug/L	ND	1.0	10/03/23 13:17	
2-Butanone (MEK)	ug/L	ND	10.0	10/03/23 13:17	
2-Chlorotoluene	ug/L	ND	1.0	10/03/23 13:17	
4-Chlorotoluene	ug/L	ND	1.0	10/03/23 13:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/03/23 13:17	
Acetone	ug/L	ND	10.0	10/03/23 13:17	
Allyl chloride	ug/L	ND	2.5	10/03/23 13:17	
Benzene	ug/L	ND	1.0	10/03/23 13:17	
Bromobenzene	ug/L	ND	1.0	10/03/23 13:17	
Bromochloromethane	ug/L	ND	1.0	10/03/23 13:17	
Bromodichloromethane	ug/L	ND	1.0	10/03/23 13:17	
Bromoform	ug/L	ND	1.0	10/03/23 13:17	
Bromomethane	ug/L	ND	2.5	10/03/23 13:17	
Carbon tetrachloride	ug/L	ND	1.0	10/03/23 13:17	
Chlorobenzene	ug/L	ND	1.0	10/03/23 13:17	
Chloroethane	ug/L	ND	1.0	10/03/23 13:17	
Chloroform	ug/L	ND	1.0	10/03/23 13:17	
Chloromethane	ug/L	ND	1.0	10/03/23 13:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/03/23 13:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

METHOD BLANK: 4788399

Matrix: Water

Associated Lab Samples: 10670301008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/03/23 13:17	
Dibromochloromethane	ug/L	ND	1.0	10/03/23 13:17	
Dibromomethane	ug/L	ND	1.0	10/03/23 13:17	
Dichlorodifluoromethane	ug/L	ND	1.0	10/03/23 13:17	
Dichlorofluoromethane	ug/L	ND	1.0	10/03/23 13:17	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	10/03/23 13:17	
Ethylbenzene	ug/L	ND	1.0	10/03/23 13:17	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/03/23 13:17	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/03/23 13:17	
m&p-Xylene	ug/L	ND	2.0	10/03/23 13:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/03/23 13:17	
Methylene Chloride	ug/L	ND	1.0	10/03/23 13:17	
n-Butylbenzene	ug/L	ND	1.0	10/03/23 13:17	
n-Propylbenzene	ug/L	ND	1.0	10/03/23 13:17	
Naphthalene	ug/L	ND	1.0	10/03/23 13:17	
o-Xylene	ug/L	ND	1.0	10/03/23 13:17	
p-Isopropyltoluene	ug/L	ND	1.0	10/03/23 13:17	
sec-Butylbenzene	ug/L	ND	1.0	10/03/23 13:17	
Styrene	ug/L	ND	1.0	10/03/23 13:17	
tert-Butylbenzene	ug/L	ND	1.0	10/03/23 13:17	
Tetrachloroethene	ug/L	ND	1.0	10/03/23 13:17	
Tetrahydrofuran	ug/L	ND	10.0	10/03/23 13:17	
Toluene	ug/L	ND	1.0	10/03/23 13:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/03/23 13:17	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/03/23 13:17	
Trichloroethene	ug/L	ND	1.0	10/03/23 13:17	
Trichlorofluoromethane	ug/L	ND	1.0	10/03/23 13:17	
Vinyl chloride	ug/L	ND	1.0	10/03/23 13:17	
Xylene (Total)	ug/L	ND	3.0	10/03/23 13:17	
1,2-Dichlorobenzene-d4 (S)	%	101	75-125	10/03/23 13:17	
4-Bromofluorobenzene (S)	%	106	75-125	10/03/23 13:17	
Toluene-d8 (S)	%	103	75-125	10/03/23 13:17	

LABORATORY CONTROL SAMPLE: 4788400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.2	96	75-125	
1,1,1-Trichloroethane	ug/L	20	19.9	100	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	71-125	
1,1,2-Trichloroethane	ug/L	20	19.9	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.3	101	69-125	
1,1-Dichloroethane	ug/L	20	18.1	91	75-125	
1,1-Dichloroethene	ug/L	20	18.4	92	69-125	
1,1-Dichloropropene	ug/L	20	19.5	98	74-125	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

LABORATORY CONTROL SAMPLE: 4788400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	18.7	93	70-131	
1,2,3-Trichloropropane	ug/L	20	19.7	99	73-125	
1,2,4-Trichlorobenzene	ug/L	20	18.8	94	75-125	
1,2,4-Trimethylbenzene	ug/L	20	19.4	97	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.3	97	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	19.6	98	75-125	
1,2-Dichlorobenzene	ug/L	20	18.4	92	75-125	
1,2-Dichloroethane	ug/L	20	20.1	100	75-125	
1,2-Dichloropropane	ug/L	20	18.9	94	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.6	98	75-125	
1,3-Dichlorobenzene	ug/L	20	19.1	95	75-125	
1,3-Dichloropropane	ug/L	20	19.5	97	75-125	
1,4-Dichlorobenzene	ug/L	20	18.7	93	75-125	
2,2-Dichloropropane	ug/L	20	20.3	101	65-125	
2-Butanone (MEK)	ug/L	100	114	114	61-131	
2-Chlorotoluene	ug/L	20	18.6	93	75-125	
4-Chlorotoluene	ug/L	20	19.5	97	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	62-142	
Acetone	ug/L	100	114	114	57-137	
Allyl chloride	ug/L	20	19.2	96	73-125	
Benzene	ug/L	20	17.8	89	75-125	
Bromobenzene	ug/L	20	18.0	90	75-125	
Bromochloromethane	ug/L	20	18.7	94	75-125	
Bromodichloromethane	ug/L	20	19.7	99	75-125	
Bromoform	ug/L	20	18.9	94	75-134	
Bromomethane	ug/L	20	17.5	87	32-150	
Carbon tetrachloride	ug/L	20	19.5	98	73-126	
Chlorobenzene	ug/L	20	17.9	89	75-125	
Chloroethane	ug/L	20	21.5	107	70-125	
Chloroform	ug/L	20	19.1	96	75-125	
Chloromethane	ug/L	20	19.8	99	65-125	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	75-125	
Dibromochloromethane	ug/L	20	19.0	95	75-125	
Dibromomethane	ug/L	20	18.2	91	75-125	
Dichlorodifluoromethane	ug/L	20	21.9	110	65-135	
Dichlorofluoromethane	ug/L	20	20.2	101	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.9	94	75-125	
Ethylbenzene	ug/L	20	18.8	94	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.2	96	63-128	
Isopropylbenzene (Cumene)	ug/L	20	19.7	99	75-125	
m&p-Xylene	ug/L	40	38.0	95	75-125	
Methyl-tert-butyl ether	ug/L	20	20.2	101	75-125	
Methylene Chloride	ug/L	20	17.2	86	72-125	
n-Butylbenzene	ug/L	20	19.6	98	68-125	
n-Propylbenzene	ug/L	20	19.1	95	74-125	
Naphthalene	ug/L	20	18.8	94	67-140	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

LABORATORY CONTROL SAMPLE: 4788400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	18.8	94	75-125	
p-Isopropyltoluene	ug/L	20	19.2	96	75-126	
sec-Butylbenzene	ug/L	20	19.6	98	75-126	
Styrene	ug/L	20	18.9	95	75-139	
tert-Butylbenzene	ug/L	20	19.1	95	75-125	
Tetrachloroethene	ug/L	20	18.2	91	70-125	
Tetrahydrofuran	ug/L	100	112	112	63-145	
Toluene	ug/L	20	18.0	90	74-125	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	75-125	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	75-127	
Trichloroethene	ug/L	20	17.7	89	74-125	
Trichlorofluoromethane	ug/L	20	22.1	110	72-125	
Vinyl chloride	ug/L	20	20.5	102	66-125	
Xylene (Total)	ug/L	60	56.8	95	75-125	
1,2-Dichlorobenzene-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			105	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4788401 4788402

Parameter	Units	10670301008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.4	20.1	97	101	75-125	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.3	19.6	97	98	70-133	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.3	21.2	106	106	71-125	0	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.8	102	104	75-125	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.6	19.9	98	100	50-150	2	30	
Trichlorotrifluoroethane	ug/L	ND	20	20	18.2	18.6	91	93	71-125	2	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.8	18.3	89	91	60-136	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	19.5	19.4	98	97	70-134	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.1	18.6	90	93	66-131	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	20.0	98	100	73-125	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	18.7	90	93	66-125	3	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.1	19.4	96	97	61-143	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.9	20.1	95	101	61-137	6	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.0	20.8	100	104	75-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.8	18.8	94	94	75-125	0	30	
1,2-Dichloroethane	ug/L	ND	20	20	21.0	21.2	105	106	71-133	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.4	19.5	97	98	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.0	19.4	95	97	70-134	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.0	19.3	95	96	74-125	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.5	20.6	102	103	75-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.6	18.9	93	94	75-125	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	18.9	19.4	94	97	52-140	2	30	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4788401 4788402												
Parameter	Units	10670301008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	100	100	111	116	111	116	57-142	5	30	
2-Chlorotoluene	ug/L	ND	20	20	18.7	18.9	94	94	72-125	1	30	
4-Chlorotoluene	ug/L	ND	20	20	19.3	19.4	96	97	69-128	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	106	109	106	109	59-149	3	30	
Acetone	ug/L	ND	100	100	98.1	109	98	109	57-137	11	30	
Allyl chloride	ug/L	ND	20	20	18.5	19.2	92	96	47-139	3	30	
Benzene	ug/L	ND	20	20	18.3	18.4	92	92	66-127	0	30	
Bromobenzene	ug/L	ND	20	20	18.6	18.9	93	95	74-125	2	30	
Bromochloromethane	ug/L	ND	20	20	19.8	19.8	99	99	69-126	0	30	
Bromodichloromethane	ug/L	ND	20	20	20.1	20.4	100	102	75-125	2	30	
Bromoform	ug/L	ND	20	20	18.2	19.7	91	98	66-134	8	30	
Bromomethane	ug/L	ND	20	20	18.0	17.7	90	89	30-150	1	30	
Carbon tetrachloride	ug/L	ND	20	20	19.2	19.9	96	99	73-135	3	30	
Chlorobenzene	ug/L	ND	20	20	18.2	19.1	91	95	75-125	5	30	
Chloroethane	ug/L	ND	20	20	22.0	22.3	110	112	54-143	2	30	
Chloroform	ug/L	ND	20	20	19.7	20.2	99	101	75-125	2	30	
Chloromethane	ug/L	ND	20	20	20.4	21.0	102	105	52-131	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.7	19.0	93	95	72-125	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.1	19.8	96	99	73-125	3	30	
Dibromochloromethane	ug/L	ND	20	20	18.8	19.8	94	99	73-125	5	30	
Dibromomethane	ug/L	ND	20	20	19.0	19.5	95	98	67-129	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	21.1	22.1	105	111	54-150	5	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.1	20.5	100	103	63-136	2	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.8	18.9	94	95	70-125	1	30	
Ethylbenzene	ug/L	ND	20	20	19.1	19.3	96	97	74-128	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.9	17.7	84	89	54-133	5	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.9	20.3	100	102	75-129	2	30	
m&p-Xylene	ug/L	ND	40	40	38.2	39.0	96	98	70-131	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	20.6	100	103	65-132	3	30	
Methylene Chloride	ug/L	ND	20	20	18.1	18.5	90	93	67-125	3	30	
n-Butylbenzene	ug/L	ND	20	20	19.2	19.5	96	98	64-130	2	30	
n-Propylbenzene	ug/L	ND	20	20	19.3	19.3	97	97	72-127	0	30	
Naphthalene	ug/L	ND	20	20	18.2	18.9	91	94	61-150	4	30	
o-Xylene	ug/L	ND	20	20	19.2	19.8	96	99	75-127	3	30	
p-Isopropyltoluene	ug/L	ND	20	20	19.1	19.3	95	97	71-130	1	30	
sec-Butylbenzene	ug/L	ND	20	20	19.2	19.5	96	97	73-130	2	30	
Styrene	ug/L	ND	20	20	19.4	20.1	97	101	73-139	4	30	
tert-Butylbenzene	ug/L	ND	20	20	18.6	18.9	93	94	73-125	2	30	
Tetrachloroethene	ug/L	ND	20	20	17.9	18.8	88	93	69-129	5	30	
Tetrahydrofuran	ug/L	ND	100	100	106	113	106	113	63-145	6	30	
Toluene	ug/L	ND	20	20	18.5	18.9	93	94	66-125	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.8	17.9	89	90	69-126	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.8	20.2	99	101	75-127	2	30	
Trichloroethene	ug/L	ND	20	20	18.1	18.7	90	93	69-127	3	30	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4788401 4788402												
Parameter	Units	10670301008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	ND	20	20	21.6	22.1	108	110	58-150	2	30	
Vinyl chloride	ug/L	ND	20	20	20.6	20.9	103	105	54-146	1	30	
Xylene (Total)	ug/L	ND	60	60	57.4	58.8	96	98	75-126	2	30	
1,2-Dichlorobenzene-d4 (S)	%						99	99	75-125			
4-Bromofluorobenzene (S)	%						104	104	75-125			
Toluene-d8 (S)	%						102	102	75-125			

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QUALIFIERS

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10670301

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

BATCH QUALIFIERS

Batch: 909017

[1] Dichlorodifluoromethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Batch: 909349

[1] Dichlorodifluoromethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Batch: 909566

[1] Dichlorodifluoromethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D4 Sample was diluted due to the presence of high levels of target analytes.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Cherry Street Cleaners

Pace Project No.: 10670301

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10670301001	MW-1	EPA 8260D	909017		
10670301002	MW-2R	EPA 8260D	909017		
10670301003	MW-3R	EPA 8260D	909017		
10670301004	MW-4	EPA 8260D	909017		
10670301005	MW-5	EPA 8260D	909017		
10670301006	MW-6	EPA 8260D	909017		
10670301007	MW-7	EPA 8260D	909017		
10670301007	MW-7	EPA 8260D	909349		
10670301008	MW-9	EPA 8260D	909566		
10670301011	MW-11	EPA 8260D	909017		
10670301011	MW-11	EPA 8260D	909349		
10670301012	MW-13	EPA 8260D	909017		
10670301013	MW-15	EPA 8260D	909017		
10670301013	MW-15	EPA 8260D	909349		
10670301014	MW-15D	EPA 8260D	909017		
10670301015	MW-23	EPA 8260D	909017		
10670301015	MW-23	EPA 8260D	909349		
10670301016	MW-101	EPA 8260D	909017		
10670301017	Equipment Blank #1	EPA 8260D	909017		
10670301018	Equipment Blank #2	EPA 8260D	909349		
10670301019	Equipment Blank #3	EPA 8260D	909349		
10670301020	Trip Blank #1	EPA 8260D	909349		
10670301021	Duplicate #1	EPA 8260D	909349		

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Sign Digital COC at sampleserve.com/labapp

Client Information

The ELAM Group

161 N Lakeview Dr, Noblesville, IN 46060, USA
None, None

Chris Soffer

317-509-9926
chris.soffer@elamusa.com

Due Date:

Project Information

Project Name Former Cherry Street Cleaners

Invoice Information

The ELAM Group

161 N Lakeview Dr, Noblesville, IN 46060, USA
None, None

Attn: Accounts Payable

888-510-3526
accounts.payable@elamusa.com

Turn Around Time

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Three Day☐ Next Day ☐ Five Day☐ Two Day w/ Standard

2007e3ed-33d6-4b50-b12a-9b7f9972085d

		Data Collected		Analytical Parameters, Number of Containers and Preservative												Comments
Item#	Sample Id	Date	Time	Matrix	Full VOC Scan 8260 40.0 mL Clear VOAs HCl											
1	MW-1	09/25/2023	13:28	GW	3											001
2	MW-2R	09/24/2023	16:31	GW	3											002
3	MW-3R	09/24/2023	16:41	GW	3											003
4	MW-4	09/23/2023	14:47	GW	3											004
5	MW-5	09/24/2023	10:13	GW	3											005
6	MW-6	09/24/2023	13:23	GW	3											006
7	MW-7	09/25/2023	09:30	GW	3											007
8	MW-9	09/23/2023	13:27	GW	3											008
9	MW-9 MSD	09/23/2023	13:27	GW	3											009
10	MW-9 MS	09/23/2023	13:27	GW	3											010
11	MW-11	09/25/2023	10:43	GW	3											011
12	MW-13	09/24/2023	11:35	GW	3											012
13	MW-15	09/25/2023	12:02	GW	3											013
14	MW-15D	09/24/2023	08:35	GW	3											014
15	MW-23	09/24/2023	15:04	GW	3											015

Special Instructions or Notes

Chain of Custody

Sign Digital COC at sampleserve.com/labapp

Client Information

The ELAM Group

161 N Lakeview Dr, Noblesville, IN 46060, USA
None, None

Chris Sloffer

317-509-9926

chris.sloffer@elamusa.com

Due Date:

Project Information

Project Name Former Cherry Street Cleaners

Invoice Information

The ELAM Group

161 N Lakeview Dr, Noblesville, IN 46060, USA
None, None

Attn: Accounts Payable

888-510-3526

accounts.payable@elamusa.com

Turn Around Time

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Three Day☐ Next Day ☐ Five Day☐ Two Day @ Standard

2007e3ed-33d6-4b50-b12a-9b7f9972085d

[illegible]

Special Instructions or Notes

Transfer History

Collected by

Sample ID



AG

Duplicate #1, MW-1, MW-2R, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-9, MW-9 MSD, MW-9 MS, MW-11, MW-13, MW-15, MW-15D, MW-23, MW-101, Equipment Blank #1, Equipment Blank #2, Equipment Blank #3, Trip Blank #1

Alex Gadberry

Custody Transfer #1

Custody Transfer #2

Custody Transfer #3

Custody Transfer #4

Received at the lab

Relinquished By Received by Relinquished By Received by Relinquished By Received by Relinquished By Received by Received by



AG



Alex Gadberry

FedEx

FedEx

9/26/23, 1:28 PM
47.4257695,
-122.2975373

9/26/23, 1:28 PM
47.4257695,
-122.2975373

Sign Below

7734 8260 3468
tracking number

Received by Lab			
Name	Signature	Date	Time
	<i>M. Pur</i>	9/27/23	8:50

Effective Date: 4/14/2023

Sample Condition Upon Receipt	Client Name: <u>The ELAM Group</u>	Project #:	WO#: 10670301 PM: RMJDue Date: 10/11/23 CLIENT: ELAM Group
Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Speedee ☐ Commercial			
Tracking Number: <u>17348260 3468</u>		☐ See Exceptions ENV-FRM-MIN4-0142	
Custody Seal on Cooler/Box Present? ☒ Yes ☒ No Seals Intact? ☐ Yes ☒ No			
Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other			
Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710			
Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A			
Temp Blank? ☐ Yes ☒ No			
Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted			
Did Samples Originate in West Virginia? ☐ Yes ☒ No		Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A	
Temp should be above freezing to 6 °C		Cooler temp Read w/Temp Blank: _____ °C	
Correction Factor: <u>+0.2</u>		Cooler Temp Corrected w/temp blank: _____ °C	
Average Corrected Temp (no temp blank only): <u>12.5</u> °C		☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container	
USDA Regulated Soil: ☒ N/A, water sample/other: _____			
Date/Initials of Person Examining Contents: <u>ab7/23</u>			
Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No			
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No			
If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.			
Location (Check one): ☐ Duluth ☒ Minneapolis ☐ Virginia		COMMENTS	
Chain of Custody Present and Filled Out?		1. ☒ Yes ☐ No	
Chain of Custody Relinquished?		2. ☐ Yes ☒ No	
Sampler Name and/or Signature on COC?		3. ☐ Yes ☒ No ☐ N/A	
Samples Arrived within Hold Time?		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No	
Short Hold Time Analysis (<72 hr)?		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____	
Rush Turn Around Time Requested?		6. ☐ Yes ☒ No	
Sufficient Sample Volume?		7. ☒ Yes ☐ No	
Correct Containers Used?		8. ☒ Yes ☐ No ☐ N/A	
-Pace Containers Used?		9. ☒ Yes ☐ No	
Containers Intact?		10. Is sediment visible in the dissolved container? ☐ Yes ☐ No	
Field Filtered Volume Received for Dissolved Tests?		11. If no, write ID/Date/Time of container below: ☐ See Exceptions ENV-FRM-MIN4-0142	
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other		12. Sample # ☐ NaOH ☐ H2SO4 ☐ HNO3 ☐ Zinc Acetate Positive for Residual Chlorine? ☐ Yes ☒ No ☐ See Exceptions ENV-FRM-MIN4-0142 pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip	
All containers needing acid/base preservation have been checked?		13. ☐ Yes ☐ No ☒ N/A	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)		14. ☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)		15. ☐ Yes ☐ No ☒ N/A	
Headspace in Methyl Mercury Container?		16. ☐ Yes ☐ No ☒ N/A	
Extra labels present on soil VOA or WIDRO containers?		17. ☐ Yes ☒ No ☐ N/A	
Headspace in VOA Vials (greater than 6mm)?		18. ☐ Yes ☒ No ☐ N/A	
3 Trip Blanks Present?		19. ☐ Yes ☒ No ☐ N/A	
Trip Blank Custody Seals Present?		20. ☐ Yes ☒ No ☐ N/A	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Chris Sloffter

Date/Time: Fri 9/29/2023 9:59 AM

Comments/Resolution: Client provided to sample location and notified client of proceeding outside temperature range.

Project Manager Review: Bryan Nguyen

Date: 09/29/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: NFLine: 2 of 67

	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: 10670301

No Temp Blank		
Read Temp	Corrected Temp	Average temp
13.8	14.0	12.5
13.8	14.0	
8.6	8.8	
12.9	13.1	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE



Tracking Number	Temperature



Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:



Appendix D.4

Q4 2023 Groundwater Analytical Report



December 19, 2023

Chris Sloffer
ELM Group
161 Lakeview Dr
Noblesville, IN 46060

RE: Project: Former Cherry Street Cleaners
Pace Project No.: 10677747

Dear Chris Sloffer:

Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Johnson".

Rachel Johnson
rachel.johnson@pacelabs.com
(612) 656-2307
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW
Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

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SAMPLE SUMMARY

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10677747001	MW-1	Water	12/02/23 15:40	12/05/23 08:50
10677747002	MW-2R	Water	12/02/23 10:21	12/05/23 08:50
10677747003	MW-3R	Water	12/02/23 10:38	12/05/23 08:50
10677747004	MW-4	Water	12/01/23 10:29	12/05/23 08:50
10677747005	MW-5	Water	12/01/23 13:40	12/05/23 08:50
10677747006	MW-6	Water	12/02/23 08:51	12/05/23 08:50
10677747007	MW-7	Water	12/02/23 11:51	12/05/23 08:50
10677747008	MW-9	Water	12/01/23 09:16	12/05/23 08:50
10677747010	MW-9 MS	Water	12/01/23 09:16	12/05/23 08:50
10677747011	MW-11	Water	12/02/23 13:17	12/05/23 08:50
10677747012	MW-13	Water	12/01/23 14:42	12/05/23 08:50
10677747013	MW-15	Water	12/02/23 14:24	12/05/23 08:50
10677747014	MW-15D	Water	12/01/23 12:25	12/05/23 08:50
10677747015	MW-23	Water	12/02/23 09:13	12/05/23 08:50
10677747016	MW-101	Water	12/01/23 10:51	12/05/23 08:50
10677747017	Equipment Blank #1	Water	11/30/23 14:40	12/05/23 08:50
10677747018	Equipment Blank #2	Water	12/01/23 14:43	12/05/23 08:50
10677747019	Equipment Blank #3	Water	12/02/23 07:53	12/05/23 08:50
10677747020	Trip Blank #1	Water	12/01/23 07:31	12/05/23 08:50
10677747021	Duplicate #1	Water	12/02/23 00:00	12/05/23 08:50

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SAMPLE ANALYTE COUNT

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10677747001	MW-1	EPA 8260D	TKL	72	PASI-M
10677747002	MW-2R	EPA 8260D	TKL	72	PASI-M
10677747003	MW-3R	EPA 8260D	TKL	72	PASI-M
10677747004	MW-4	EPA 8260D	TKL	72	PASI-M
10677747005	MW-5	EPA 8260D	TKL	72	PASI-M
10677747006	MW-6	EPA 8260D	TKL	72	PASI-M
10677747007	MW-7	EPA 8260D	TKL	72	PASI-M
10677747008	MW-9	EPA 8260D	TKL	72	PASI-M
10677747011	MW-11	EPA 8260D	TKL	72	PASI-M
10677747012	MW-13	EPA 8260D	TKL	72	PASI-M
10677747013	MW-15	EPA 8260D	JEM, TKL	72	PASI-M
10677747014	MW-15D	EPA 8260D	TKL	72	PASI-M
10677747015	MW-23	EPA 8260D	TKL	72	PASI-M
10677747016	MW-101	EPA 8260D	TKL	72	PASI-M
10677747017	Equipment Blank #1	EPA 8260D	TKL	72	PASI-M
10677747018	Equipment Blank #2	EPA 8260D	TKL	72	PASI-M
10677747019	Equipment Blank #3	EPA 8260D	TKL	72	PASI-M
10677747020	Trip Blank #1	EPA 8260D	TKL	72	PASI-M
10677747021	Duplicate #1	EPA 8260D	TKL	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-1		Lab ID: 10677747001		Collected: 12/02/23 15:40		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	1240	ug/L	100	10		12/07/23 17:28	67-64-1		
Allyl chloride	ND	ug/L	25.0	10		12/07/23 17:28	107-05-1		
Benzene	ND	ug/L	10.0	10		12/07/23 17:28	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		12/07/23 17:28	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		12/07/23 17:28	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		12/07/23 17:28	75-27-4		
Bromoform	ND	ug/L	10.0	10		12/07/23 17:28	75-25-2		
Bromomethane	ND	ug/L	25.0	10		12/07/23 17:28	74-83-9		
2-Butanone (MEK)	1860	ug/L	100	10		12/07/23 17:28	78-93-3		
n-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		12/07/23 17:28	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		12/07/23 17:28	108-90-7		
Chloroethane	ND	ug/L	20.0	10		12/07/23 17:28	75-00-3		
Chloroform	ND	ug/L	10.0	10		12/07/23 17:28	67-66-3		
Chloromethane	ND	ug/L	10.0	10		12/07/23 17:28	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		12/07/23 17:28	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		12/07/23 17:28	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		12/07/23 17:28	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		12/07/23 17:28	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		12/07/23 17:28	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		12/07/23 17:28	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:28	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:28	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:28	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		12/07/23 17:28	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		12/07/23 17:28	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		12/07/23 17:28	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:28	75-35-4		
cis-1,2-Dichloroethene	542	ug/L	10.0	10		12/07/23 17:28	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:28	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		12/07/23 17:28	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:28	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:28	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:28	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:28	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:28	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:28	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		12/07/23 17:28	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		12/07/23 17:28	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		12/07/23 17:28	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		12/07/23 17:28	99-87-6		
Methylene Chloride	ND	ug/L	10.0	10		12/07/23 17:28	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		12/07/23 17:28	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-1		Lab ID: 10677747001		Collected: 12/02/23 15:40		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		12/07/23 17:28	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		12/07/23 17:28	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	103-65-1		
Styrene	ND	ug/L	10.0	10		12/07/23 17:28	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		12/07/23 17:28	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		12/07/23 17:28	79-34-5		
Tetrachloroethene	267	ug/L	10.0	10		12/07/23 17:28	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		12/07/23 17:28	109-99-9		
Toluene	ND	ug/L	10.0	10		12/07/23 17:28	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:28	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:28	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		12/07/23 17:28	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		12/07/23 17:28	79-00-5		
Trichloroethene	15.3	ug/L	10.0	10		12/07/23 17:28	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		12/07/23 17:28	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		12/07/23 17:28	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		12/07/23 17:28	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		12/07/23 17:28	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		12/07/23 17:28	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		12/07/23 17:28	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		12/07/23 17:28	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		12/07/23 17:28	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	10		12/07/23 17:28	2199-69-1	D4	
4-Bromofluorobenzene (S)	104	%.	75-125	10		12/07/23 17:28	460-00-4		
Toluene-d8 (S)	101	%.	75-125	10		12/07/23 17:28	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-2R		Lab ID: 10677747002		Collected: 12/02/23 10:21		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	20.0	2		12/07/23 15:44	67-64-1		
Allyl chloride	ND	ug/L	5.0	2		12/07/23 15:44	107-05-1		
Benzene	ND	ug/L	2.0	2		12/07/23 15:44	71-43-2		
Bromobenzene	ND	ug/L	2.0	2		12/07/23 15:44	108-86-1		
Bromochloromethane	ND	ug/L	2.0	2		12/07/23 15:44	74-97-5		
Bromodichloromethane	ND	ug/L	2.0	2		12/07/23 15:44	75-27-4		
Bromoform	ND	ug/L	2.0	2		12/07/23 15:44	75-25-2		
Bromomethane	ND	ug/L	5.0	2		12/07/23 15:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	20.0	2		12/07/23 15:44	78-93-3		
n-Butylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	104-51-8		
sec-Butylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	135-98-8		
tert-Butylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	98-06-6		
Carbon tetrachloride	ND	ug/L	2.0	2		12/07/23 15:44	56-23-5		
Chlorobenzene	ND	ug/L	2.0	2		12/07/23 15:44	108-90-7		
Chloroethane	ND	ug/L	4.0	2		12/07/23 15:44	75-00-3		
Chloroform	ND	ug/L	2.0	2		12/07/23 15:44	67-66-3		
Chloromethane	ND	ug/L	2.0	2		12/07/23 15:44	74-87-3		
2-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 15:44	95-49-8		
4-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 15:44	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2		12/07/23 15:44	96-12-8		
Dibromochloromethane	ND	ug/L	2.0	2		12/07/23 15:44	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/07/23 15:44	106-93-4		
Dibromomethane	ND	ug/L	2.0	2		12/07/23 15:44	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 15:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 15:44	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 15:44	106-46-7		
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/07/23 15:44	75-71-8		
1,1-Dichloroethane	ND	ug/L	2.0	2		12/07/23 15:44	75-34-3		
1,2-Dichloroethane	ND	ug/L	2.0	2		12/07/23 15:44	107-06-2		
1,1-Dichloroethene	ND	ug/L	2.0	2		12/07/23 15:44	75-35-4		
cis-1,2-Dichloroethene	4.1	ug/L	2.0	2		12/07/23 15:44	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/07/23 15:44	156-60-5		
Dichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 15:44	75-43-4		
1,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 15:44	78-87-5		
1,3-Dichloropropane	ND	ug/L	2.0	2		12/07/23 15:44	142-28-9		
2,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 15:44	594-20-7		
1,1-Dichloropropene	ND	ug/L	2.0	2		12/07/23 15:44	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 15:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 15:44	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	2		12/07/23 15:44	60-29-7		
Ethylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/07/23 15:44	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		12/07/23 15:44	98-82-8		
p-Isopropyltoluene	ND	ug/L	2.0	2		12/07/23 15:44	99-87-6		
Methylene Chloride	ND	ug/L	2.0	2		12/07/23 15:44	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	2		12/07/23 15:44	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-2R		Lab ID: 10677747002		Collected: 12/02/23 10:21		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	2.0	2		12/07/23 15:44	1634-04-4		
Naphthalene	ND	ug/L	2.0	2		12/07/23 15:44	91-20-3		
n-Propylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	103-65-1		
Styrene	ND	ug/L	2.0	2		12/07/23 15:44	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 15:44	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 15:44	79-34-5		
Tetrachloroethene	140	ug/L	2.0	2		12/07/23 15:44	127-18-4		
Tetrahydrofuran	ND	ug/L	20.0	2		12/07/23 15:44	109-99-9		
Toluene	ND	ug/L	2.0	2		12/07/23 15:44	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 15:44	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 15:44	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	2.0	2		12/07/23 15:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/07/23 15:44	79-00-5		
Trichloroethene	7.1	ug/L	2.0	2		12/07/23 15:44	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 15:44	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	5.0	2		12/07/23 15:44	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	2.0	2		12/07/23 15:44	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 15:44	108-67-8		
Vinyl chloride	ND	ug/L	2.0	2		12/07/23 15:44	75-01-4		
Xylene (Total)	ND	ug/L	6.0	2		12/07/23 15:44	1330-20-7		
m&p-Xylene	ND	ug/L	4.0	2		12/07/23 15:44	179601-23-1		
o-Xylene	ND	ug/L	2.0	2		12/07/23 15:44	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	2		12/07/23 15:44	2199-69-1	D4	
4-Bromofluorobenzene (S)	105	%.	75-125	2		12/07/23 15:44	460-00-4		
Toluene-d8 (S)	100	%.	75-125	2		12/07/23 15:44	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-3R		Lab ID: 10677747003		Collected: 12/02/23 10:38		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 17:13	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 17:13	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 17:13	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 17:13	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 17:13	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 17:13	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 17:13	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 17:13	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 17:13	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	98-06-6		
Carbon tetrachloride	1.4	ug/L	1.0	1		12/07/23 17:13	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 17:13	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 17:13	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 17:13	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 17:13	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 17:13	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 17:13	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 17:13	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 17:13	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 17:13	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 17:13	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 17:13	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 17:13	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 17:13	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 17:13	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 17:13	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 17:13	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 17:13	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 17:13	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 17:13	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 17:13	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 17:13	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 17:13	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 17:13	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 17:13	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 17:13	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 17:13	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 17:13	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 17:13	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 17:13	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 17:13	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 17:13	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 17:13	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-3R		Lab ID: 10677747003		Collected: 12/02/23 10:38		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 17:13	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 17:13	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 17:13	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 17:13	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 17:13	79-34-5		
Tetrachloroethene	116	ug/L	1.0	1		12/07/23 17:13	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 17:13	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 17:13	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 17:13	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 17:13	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 17:13	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 17:13	79-00-5		
Trichloroethene	1.5	ug/L	1.0	1		12/07/23 17:13	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 17:13	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 17:13	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 17:13	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 17:13	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 17:13	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 17:13	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 17:13	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 17:13	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		12/07/23 17:13	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		12/07/23 17:13	460-00-4		
Toluene-d8 (S)	100	%.	75-125	1		12/07/23 17:13	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-4		Lab ID: 10677747004		Collected: 12/01/23 10:29		Received: 12/05/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		12/07/23 14:30	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 14:30	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 14:30	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 14:30	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 14:30	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 14:30	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 14:30	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 14:30	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 14:30	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 14:30	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 14:30	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 14:30	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 14:30	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 14:30	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:30	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:30	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 14:30	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 14:30	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 14:30	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 14:30	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:30	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:30	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:30	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 14:30	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:30	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:30	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:30	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:30	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:30	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:30	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:30	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:30	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:30	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:30	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:30	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:30	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 14:30	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 14:30	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 14:30	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 14:30	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 14:30	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 14:30	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-4		Lab ID: 10677747004		Collected: 12/01/23 10:29		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 14:30	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 14:30	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 14:30	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:30	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:30	79-34-5		
Tetrachloroethene	4.2	ug/L	1.0	1		12/07/23 14:30	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 14:30	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 14:30	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:30	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:30	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:30	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:30	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 14:30	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:30	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 14:30	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 14:30	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:30	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 14:30	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 14:30	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 14:30	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 14:30	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		12/07/23 14:30	2199-69-1		
4-Bromofluorobenzene (S)	102	%.	75-125	1		12/07/23 14:30	460-00-4		
Toluene-d8 (S)	100	%.	75-125	1		12/07/23 14:30	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-5		Lab ID: 10677747005		Collected: 12/01/23 13:40		Received: 12/05/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		12/07/23 14:45	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 14:45	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 14:45	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 14:45	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 14:45	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 14:45	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 14:45	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 14:45	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 14:45	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 14:45	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 14:45	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 14:45	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 14:45	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 14:45	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:45	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:45	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 14:45	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 14:45	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 14:45	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 14:45	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:45	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:45	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:45	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 14:45	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:45	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:45	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:45	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:45	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:45	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:45	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:45	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:45	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:45	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:45	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:45	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:45	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 14:45	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 14:45	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 14:45	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 14:45	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 14:45	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 14:45	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-5		Lab ID: 10677747005		Collected: 12/01/23 13:40		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 14:45	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 14:45	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 14:45	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:45	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:45	79-34-5		
Tetrachloroethene	62.0	ug/L	1.0	1		12/07/23 14:45	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 14:45	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 14:45	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:45	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:45	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:45	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:45	79-00-5		
Trichloroethene	1.1	ug/L	1.0	1		12/07/23 14:45	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:45	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 14:45	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 14:45	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:45	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 14:45	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 14:45	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 14:45	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 14:45	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		12/07/23 14:45	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		12/07/23 14:45	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		12/07/23 14:45	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-6		Lab ID: 10677747006		Collected: 12/02/23 08:51		Received: 12/05/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		12/07/23 15:00	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 15:00	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 15:00	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 15:00	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 15:00	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 15:00	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 15:00	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 15:00	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 15:00	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 15:00	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 15:00	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 15:00	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 15:00	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 15:00	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 15:00	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 15:00	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 15:00	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 15:00	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 15:00	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 15:00	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:00	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:00	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:00	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 15:00	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 15:00	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 15:00	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:00	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:00	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:00	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 15:00	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:00	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:00	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:00	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:00	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:00	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:00	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 15:00	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 15:00	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 15:00	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 15:00	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 15:00	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 15:00	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-6		Lab ID: 10677747006		Collected: 12/02/23 08:51		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 15:00	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 15:00	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 15:00	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 15:00	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 15:00	79-34-5		
Tetrachloroethene	98.5	ug/L	1.0	1		12/07/23 15:00	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 15:00	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 15:00	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:00	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:00	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 15:00	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 15:00	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 15:00	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 15:00	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 15:00	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 15:00	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 15:00	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 15:00	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 15:00	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 15:00	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 15:00	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		12/07/23 15:00	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		12/07/23 15:00	460-00-4		
Toluene-d8 (S)	100	%.	75-125	1		12/07/23 15:00	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-7		Lab ID: 10677747007		Collected: 12/02/23 11:51		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	61.2	ug/L	20.0	2		12/07/23 16:14	67-64-1		
Allyl chloride	ND	ug/L	5.0	2		12/07/23 16:14	107-05-1		
Benzene	ND	ug/L	2.0	2		12/07/23 16:14	71-43-2		
Bromobenzene	ND	ug/L	2.0	2		12/07/23 16:14	108-86-1		
Bromochloromethane	ND	ug/L	2.0	2		12/07/23 16:14	74-97-5		
Bromodichloromethane	ND	ug/L	2.0	2		12/07/23 16:14	75-27-4		
Bromoform	ND	ug/L	2.0	2		12/07/23 16:14	75-25-2		
Bromomethane	ND	ug/L	5.0	2		12/07/23 16:14	74-83-9		
2-Butanone (MEK)	ND	ug/L	20.0	2		12/07/23 16:14	78-93-3		
n-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	104-51-8		
sec-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	135-98-8		
tert-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	98-06-6		
Carbon tetrachloride	ND	ug/L	2.0	2		12/07/23 16:14	56-23-5		
Chlorobenzene	ND	ug/L	2.0	2		12/07/23 16:14	108-90-7		
Chloroethane	ND	ug/L	4.0	2		12/07/23 16:14	75-00-3		
Chloroform	ND	ug/L	2.0	2		12/07/23 16:14	67-66-3		
Chloromethane	ND	ug/L	2.0	2		12/07/23 16:14	74-87-3		
2-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 16:14	95-49-8		
4-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 16:14	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2		12/07/23 16:14	96-12-8		
Dibromochloromethane	ND	ug/L	2.0	2		12/07/23 16:14	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/07/23 16:14	106-93-4		
Dibromomethane	ND	ug/L	2.0	2		12/07/23 16:14	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:14	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:14	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:14	106-46-7		
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/07/23 16:14	75-71-8		
1,1-Dichloroethane	ND	ug/L	2.0	2		12/07/23 16:14	75-34-3		
1,2-Dichloroethane	ND	ug/L	2.0	2		12/07/23 16:14	107-06-2		
1,1-Dichloroethene	ND	ug/L	2.0	2		12/07/23 16:14	75-35-4		
cis-1,2-Dichloroethene	195	ug/L	2.0	2		12/07/23 16:14	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/07/23 16:14	156-60-5		
Dichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 16:14	75-43-4		
1,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:14	78-87-5		
1,3-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:14	142-28-9		
2,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:14	594-20-7		
1,1-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:14	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:14	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:14	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	2		12/07/23 16:14	60-29-7		
Ethylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/07/23 16:14	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		12/07/23 16:14	98-82-8		
p-Isopropyltoluene	ND	ug/L	2.0	2		12/07/23 16:14	99-87-6		
Methylene Chloride	ND	ug/L	2.0	2		12/07/23 16:14	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	2		12/07/23 16:14	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-7		Lab ID: 10677747007		Collected: 12/02/23 11:51		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	2.0	2		12/07/23 16:14	1634-04-4		
Naphthalene	ND	ug/L	2.0	2		12/07/23 16:14	91-20-3		
n-Propylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	103-65-1		
Styrene	ND	ug/L	2.0	2		12/07/23 16:14	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 16:14	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 16:14	79-34-5		
Tetrachloroethene	2.3	ug/L	2.0	2		12/07/23 16:14	127-18-4		
Tetrahydrofuran	ND	ug/L	20.0	2		12/07/23 16:14	109-99-9		
Toluene	ND	ug/L	2.0	2		12/07/23 16:14	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:14	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:14	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	2.0	2		12/07/23 16:14	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/07/23 16:14	79-00-5		
Trichloroethene	ND	ug/L	2.0	2		12/07/23 16:14	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 16:14	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	5.0	2		12/07/23 16:14	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	2.0	2		12/07/23 16:14	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 16:14	108-67-8		
Vinyl chloride	ND	ug/L	2.0	2		12/07/23 16:14	75-01-4		
Xylene (Total)	ND	ug/L	6.0	2		12/07/23 16:14	1330-20-7		
m&p-Xylene	ND	ug/L	4.0	2		12/07/23 16:14	179601-23-1		
o-Xylene	ND	ug/L	2.0	2		12/07/23 16:14	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	2		12/07/23 16:14	2199-69-1	D4	
4-Bromofluorobenzene (S)	103	%.	75-125	2		12/07/23 16:14	460-00-4		
Toluene-d8 (S)	99	%.	75-125	2		12/07/23 16:14	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-9		Lab ID: 10677747008		Collected: 12/01/23 09:16		Received: 12/05/23 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D							
		Pace Analytical Services - Minneapolis							
Acetone	ND	ug/L	10.0	1		12/07/23 19:27	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 19:27	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 19:27	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 19:27	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 19:27	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 19:27	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 19:27	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 19:27	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 19:27	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 19:27	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 19:27	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 19:27	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 19:27	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 19:27	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 19:27	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 19:27	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 19:27	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 19:27	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 19:27	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 19:27	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 19:27	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 19:27	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 19:27	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 19:27	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 19:27	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 19:27	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 19:27	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 19:27	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 19:27	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 19:27	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 19:27	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 19:27	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 19:27	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 19:27	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 19:27	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 19:27	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 19:27	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 19:27	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 19:27	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 19:27	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 19:27	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 19:27	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-9		Lab ID: 10677747008		Collected: 12/01/23 09:16		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 19:27	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 19:27	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 19:27	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 19:27	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 19:27	79-34-5		
Tetrachloroethene	1.2	ug/L	1.0	1		12/07/23 19:27	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 19:27	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 19:27	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 19:27	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 19:27	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 19:27	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 19:27	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 19:27	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 19:27	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 19:27	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 19:27	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 19:27	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 19:27	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 19:27	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 19:27	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 19:27	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1		12/07/23 19:27	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		12/07/23 19:27	460-00-4		
Toluene-d8 (S)	99	%.	75-125	1		12/07/23 19:27	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-11		Lab ID: 10677747011		Collected: 12/02/23 13:17		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	50.0	5		12/07/23 16:59	67-64-1		
Allyl chloride	ND	ug/L	12.5	5		12/07/23 16:59	107-05-1		
Benzene	ND	ug/L	5.0	5		12/07/23 16:59	71-43-2		
Bromobenzene	ND	ug/L	5.0	5		12/07/23 16:59	108-86-1		
Bromochloromethane	ND	ug/L	5.0	5		12/07/23 16:59	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	5		12/07/23 16:59	75-27-4		
Bromoform	ND	ug/L	5.0	5		12/07/23 16:59	75-25-2		
Bromomethane	ND	ug/L	12.5	5		12/07/23 16:59	74-83-9		
2-Butanone (MEK)	ND	ug/L	50.0	5		12/07/23 16:59	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	98-06-6		
Carbon tetrachloride	ND	ug/L	5.0	5		12/07/23 16:59	56-23-5		
Chlorobenzene	ND	ug/L	5.0	5		12/07/23 16:59	108-90-7		
Chloroethane	ND	ug/L	10.0	5		12/07/23 16:59	75-00-3		
Chloroform	ND	ug/L	5.0	5		12/07/23 16:59	67-66-3		
Chloromethane	ND	ug/L	5.0	5		12/07/23 16:59	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	5		12/07/23 16:59	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	5		12/07/23 16:59	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		12/07/23 16:59	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	5		12/07/23 16:59	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		12/07/23 16:59	106-93-4		
Dibromomethane	ND	ug/L	5.0	5		12/07/23 16:59	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	5		12/07/23 16:59	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	5		12/07/23 16:59	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	5		12/07/23 16:59	106-46-7		
Dichlorodifluoromethane	ND	ug/L	5.0	5		12/07/23 16:59	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	5		12/07/23 16:59	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	5		12/07/23 16:59	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	5		12/07/23 16:59	75-35-4		
cis-1,2-Dichloroethene	62.0	ug/L	5.0	5		12/07/23 16:59	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/07/23 16:59	156-60-5		
Dichlorofluoromethane	ND	ug/L	5.0	5		12/07/23 16:59	75-43-4		
1,2-Dichloropropane	ND	ug/L	5.0	5		12/07/23 16:59	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	5		12/07/23 16:59	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	5		12/07/23 16:59	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	5		12/07/23 16:59	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		12/07/23 16:59	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		12/07/23 16:59	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		12/07/23 16:59	60-29-7		
Ethylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		12/07/23 16:59	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	5		12/07/23 16:59	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	5		12/07/23 16:59	99-87-6		
Methylene Chloride	ND	ug/L	5.0	5		12/07/23 16:59	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		12/07/23 16:59	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-11		Lab ID: 10677747011		Collected: 12/02/23 13:17		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	5.0	5		12/07/23 16:59	1634-04-4		
Naphthalene	ND	ug/L	5.0	5		12/07/23 16:59	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	103-65-1		
Styrene	ND	ug/L	5.0	5		12/07/23 16:59	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		12/07/23 16:59	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		12/07/23 16:59	79-34-5		
Tetrachloroethene	407	ug/L	5.0	5		12/07/23 16:59	127-18-4		
Tetrahydrofuran	ND	ug/L	50.0	5		12/07/23 16:59	109-99-9		
Toluene	ND	ug/L	5.0	5		12/07/23 16:59	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		12/07/23 16:59	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		12/07/23 16:59	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/07/23 16:59	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	5		12/07/23 16:59	79-00-5		
Trichloroethene	18.7	ug/L	5.0	5		12/07/23 16:59	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	5		12/07/23 16:59	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		12/07/23 16:59	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		12/07/23 16:59	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		12/07/23 16:59	108-67-8		
Vinyl chloride	ND	ug/L	5.0	5		12/07/23 16:59	75-01-4		
Xylene (Total)	ND	ug/L	15.0	5		12/07/23 16:59	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	5		12/07/23 16:59	179601-23-1		
o-Xylene	ND	ug/L	5.0	5		12/07/23 16:59	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	5		12/07/23 16:59	2199-69-1	D4	
4-Bromofluorobenzene (S)	102	%.	75-125	5		12/07/23 16:59	460-00-4		
Toluene-d8 (S)	101	%.	75-125	5		12/07/23 16:59	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-13		Lab ID: 10677747012		Collected: 12/01/23 14:42		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 15:14	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 15:14	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 15:14	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 15:14	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 15:14	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 15:14	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 15:14	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 15:14	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 15:14	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 15:14	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 15:14	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 15:14	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 15:14	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 15:14	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 15:14	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 15:14	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 15:14	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 15:14	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 15:14	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 15:14	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:14	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:14	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:14	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 15:14	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 15:14	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 15:14	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:14	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:14	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:14	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 15:14	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:14	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:14	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:14	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:14	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:14	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:14	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 15:14	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 15:14	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 15:14	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 15:14	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 15:14	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 15:14	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-13		Lab ID: 10677747012		Collected: 12/01/23 14:42		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 15:14	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 15:14	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 15:14	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 15:14	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 15:14	79-34-5		
Tetrachloroethene	35.2	ug/L	1.0	1		12/07/23 15:14	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 15:14	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 15:14	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:14	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:14	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 15:14	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 15:14	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 15:14	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 15:14	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 15:14	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 15:14	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 15:14	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 15:14	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 15:14	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 15:14	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 15:14	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125	1		12/07/23 15:14	2199-69-1		
4-Bromofluorobenzene (S)	101	%.	75-125	1		12/07/23 15:14	460-00-4		
Toluene-d8 (S)	100	%.	75-125	1		12/07/23 15:14	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-15		Lab ID: 10677747013		Collected: 12/02/23 14:24		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	100	10		12/15/23 15:04	67-64-1	D4	
Allyl chloride	ND	ug/L	25.0	10		12/07/23 17:43	107-05-1		
Benzene	ND	ug/L	10.0	10		12/07/23 17:43	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		12/07/23 17:43	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		12/07/23 17:43	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		12/07/23 17:43	75-27-4		
Bromoform	ND	ug/L	10.0	10		12/07/23 17:43	75-25-2		
Bromomethane	ND	ug/L	25.0	10		12/07/23 17:43	74-83-9		
2-Butanone (MEK)	ND	ug/L	100	10		12/15/23 15:04	78-93-3	D4	
n-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		12/07/23 17:43	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		12/07/23 17:43	108-90-7		
Chloroethane	ND	ug/L	20.0	10		12/07/23 17:43	75-00-3		
Chloroform	ND	ug/L	10.0	10		12/07/23 17:43	67-66-3		
Chloromethane	ND	ug/L	10.0	10		12/07/23 17:43	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		12/07/23 17:43	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		12/07/23 17:43	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		12/07/23 17:43	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		12/07/23 17:43	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		12/07/23 17:43	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		12/07/23 17:43	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:43	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:43	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:43	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		12/07/23 17:43	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		12/07/23 17:43	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		12/07/23 17:43	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:43	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:43	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:43	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		12/07/23 17:43	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:43	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:43	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:43	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:43	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:43	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:43	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		12/07/23 17:43	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		12/07/23 17:43	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		12/07/23 17:43	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		12/07/23 17:43	99-87-6		
Methylene Chloride	ND	ug/L	10.0	10		12/07/23 17:43	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		12/07/23 17:43	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-15		Lab ID: 10677747013		Collected: 12/02/23 14:24		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		12/07/23 17:43	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		12/07/23 17:43	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	103-65-1		
Styrene	ND	ug/L	10.0	10		12/07/23 17:43	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		12/07/23 17:43	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		12/07/23 17:43	79-34-5		
Tetrachloroethene	704	ug/L	10.0	10		12/07/23 17:43	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		12/07/23 17:43	109-99-9		
Toluene	ND	ug/L	10.0	10		12/07/23 17:43	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:43	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:43	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		12/07/23 17:43	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		12/07/23 17:43	79-00-5		
Trichloroethene	14.7	ug/L	10.0	10		12/07/23 17:43	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		12/07/23 17:43	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		12/07/23 17:43	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		12/07/23 17:43	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		12/07/23 17:43	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		12/07/23 17:43	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		12/07/23 17:43	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		12/07/23 17:43	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		12/07/23 17:43	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	10		12/07/23 17:43	2199-69-1	D4	
4-Bromofluorobenzene (S)	104	%.	75-125	10		12/07/23 17:43	460-00-4		
Toluene-d8 (S)	102	%.	75-125	10		12/07/23 17:43	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-15D		Lab ID: 10677747014		Collected: 12/01/23 12:25		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 15:29	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 15:29	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 15:29	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 15:29	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 15:29	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 15:29	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 15:29	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 15:29	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 15:29	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 15:29	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 15:29	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 15:29	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 15:29	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 15:29	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 15:29	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 15:29	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 15:29	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 15:29	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 15:29	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 15:29	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:29	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:29	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:29	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 15:29	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 15:29	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 15:29	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:29	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:29	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 15:29	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 15:29	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:29	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:29	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 15:29	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:29	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:29	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 15:29	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 15:29	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 15:29	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 15:29	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 15:29	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 15:29	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 15:29	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-15D		Lab ID: 10677747014		Collected: 12/01/23 12:25		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 15:29	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 15:29	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 15:29	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 15:29	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 15:29	79-34-5		
Tetrachloroethene	14.0	ug/L	1.0	1		12/07/23 15:29	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 15:29	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 15:29	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:29	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 15:29	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 15:29	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 15:29	79-00-5		
Trichloroethene	1.9	ug/L	1.0	1		12/07/23 15:29	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 15:29	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 15:29	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 15:29	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 15:29	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 15:29	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 15:29	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 15:29	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 15:29	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		12/07/23 15:29	2199-69-1		
4-Bromofluorobenzene (S)	104	%.	75-125	1		12/07/23 15:29	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		12/07/23 15:29	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-23		Lab ID: 10677747015		Collected: 12/02/23 09:13		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	20.0	2		12/07/23 16:29	67-64-1		
Allyl chloride	ND	ug/L	5.0	2		12/07/23 16:29	107-05-1		
Benzene	ND	ug/L	2.0	2		12/07/23 16:29	71-43-2		
Bromobenzene	ND	ug/L	2.0	2		12/07/23 16:29	108-86-1		
Bromochloromethane	ND	ug/L	2.0	2		12/07/23 16:29	74-97-5		
Bromodichloromethane	ND	ug/L	2.0	2		12/07/23 16:29	75-27-4		
Bromoform	ND	ug/L	2.0	2		12/07/23 16:29	75-25-2		
Bromomethane	ND	ug/L	5.0	2		12/07/23 16:29	74-83-9		
2-Butanone (MEK)	ND	ug/L	20.0	2		12/07/23 16:29	78-93-3		
n-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	104-51-8		
sec-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	135-98-8		
tert-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	98-06-6		
Carbon tetrachloride	ND	ug/L	2.0	2		12/07/23 16:29	56-23-5		
Chlorobenzene	ND	ug/L	2.0	2		12/07/23 16:29	108-90-7		
Chloroethane	ND	ug/L	4.0	2		12/07/23 16:29	75-00-3		
Chloroform	ND	ug/L	2.0	2		12/07/23 16:29	67-66-3		
Chloromethane	ND	ug/L	2.0	2		12/07/23 16:29	74-87-3		
2-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 16:29	95-49-8		
4-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 16:29	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2		12/07/23 16:29	96-12-8		
Dibromochloromethane	ND	ug/L	2.0	2		12/07/23 16:29	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/07/23 16:29	106-93-4		
Dibromomethane	ND	ug/L	2.0	2		12/07/23 16:29	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:29	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:29	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:29	106-46-7		
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/07/23 16:29	75-71-8		
1,1-Dichloroethane	ND	ug/L	2.0	2		12/07/23 16:29	75-34-3		
1,2-Dichloroethane	ND	ug/L	2.0	2		12/07/23 16:29	107-06-2		
1,1-Dichloroethene	ND	ug/L	2.0	2		12/07/23 16:29	75-35-4		
cis-1,2-Dichloroethene	57.5	ug/L	2.0	2		12/07/23 16:29	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/07/23 16:29	156-60-5		
Dichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 16:29	75-43-4		
1,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:29	78-87-5		
1,3-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:29	142-28-9		
2,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:29	594-20-7		
1,1-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:29	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:29	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:29	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	2		12/07/23 16:29	60-29-7		
Ethylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/07/23 16:29	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		12/07/23 16:29	98-82-8		
p-Isopropyltoluene	ND	ug/L	2.0	2		12/07/23 16:29	99-87-6		
Methylene Chloride	ND	ug/L	2.0	2		12/07/23 16:29	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	2		12/07/23 16:29	108-10-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-23		Lab ID: 10677747015		Collected: 12/02/23 09:13		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	2.0	2		12/07/23 16:29	1634-04-4		
Naphthalene	ND	ug/L	2.0	2		12/07/23 16:29	91-20-3		
n-Propylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	103-65-1		
Styrene	ND	ug/L	2.0	2		12/07/23 16:29	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 16:29	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 16:29	79-34-5		
Tetrachloroethene	279	ug/L	2.0	2		12/07/23 16:29	127-18-4		
Tetrahydrofuran	ND	ug/L	20.0	2		12/07/23 16:29	109-99-9		
Toluene	ND	ug/L	2.0	2		12/07/23 16:29	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:29	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:29	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	2.0	2		12/07/23 16:29	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/07/23 16:29	79-00-5		
Trichloroethene	17.1	ug/L	2.0	2		12/07/23 16:29	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 16:29	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	5.0	2		12/07/23 16:29	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	2.0	2		12/07/23 16:29	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 16:29	108-67-8		
Vinyl chloride	ND	ug/L	2.0	2		12/07/23 16:29	75-01-4		
Xylene (Total)	ND	ug/L	6.0	2		12/07/23 16:29	1330-20-7		
m&p-Xylene	ND	ug/L	4.0	2		12/07/23 16:29	179601-23-1		
o-Xylene	ND	ug/L	2.0	2		12/07/23 16:29	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	2		12/07/23 16:29	2199-69-1	D4	
4-Bromofluorobenzene (S)	102	%.	75-125	2		12/07/23 16:29	460-00-4		
Toluene-d8 (S)	99	%.	75-125	2		12/07/23 16:29	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-101		Lab ID: 10677747016		Collected: 12/01/23 10:51		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	20.0	2		12/07/23 16:44	67-64-1		
Allyl chloride	ND	ug/L	5.0	2		12/07/23 16:44	107-05-1		
Benzene	ND	ug/L	2.0	2		12/07/23 16:44	71-43-2		
Bromobenzene	ND	ug/L	2.0	2		12/07/23 16:44	108-86-1		
Bromochloromethane	ND	ug/L	2.0	2		12/07/23 16:44	74-97-5		
Bromodichloromethane	ND	ug/L	2.0	2		12/07/23 16:44	75-27-4		
Bromoform	ND	ug/L	2.0	2		12/07/23 16:44	75-25-2		
Bromomethane	ND	ug/L	5.0	2		12/07/23 16:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	20.0	2		12/07/23 16:44	78-93-3		
n-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	104-51-8		
sec-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	135-98-8		
tert-Butylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	98-06-6		
Carbon tetrachloride	ND	ug/L	2.0	2		12/07/23 16:44	56-23-5		
Chlorobenzene	ND	ug/L	2.0	2		12/07/23 16:44	108-90-7		
Chloroethane	ND	ug/L	4.0	2		12/07/23 16:44	75-00-3		
Chloroform	ND	ug/L	2.0	2		12/07/23 16:44	67-66-3		
Chloromethane	ND	ug/L	2.0	2		12/07/23 16:44	74-87-3		
2-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 16:44	95-49-8		
4-Chlorotoluene	ND	ug/L	2.0	2		12/07/23 16:44	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2		12/07/23 16:44	96-12-8		
Dibromochloromethane	ND	ug/L	2.0	2		12/07/23 16:44	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/07/23 16:44	106-93-4		
Dibromomethane	ND	ug/L	2.0	2		12/07/23 16:44	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:44	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:44	106-46-7		
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/07/23 16:44	75-71-8		
1,1-Dichloroethane	ND	ug/L	2.0	2		12/07/23 16:44	75-34-3		
1,2-Dichloroethane	ND	ug/L	2.0	2		12/07/23 16:44	107-06-2		
1,1-Dichloroethene	ND	ug/L	2.0	2		12/07/23 16:44	75-35-4		
cis-1,2-Dichloroethene	13.3	ug/L	2.0	2		12/07/23 16:44	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/07/23 16:44	156-60-5		
Dichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 16:44	75-43-4		
1,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:44	78-87-5		
1,3-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:44	142-28-9		
2,2-Dichloropropane	ND	ug/L	2.0	2		12/07/23 16:44	594-20-7		
1,1-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:44	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		12/07/23 16:44	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	2		12/07/23 16:44	60-29-7		
Ethylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/07/23 16:44	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	2.0	2		12/07/23 16:44	98-82-8		
p-Isopropyltoluene	ND	ug/L	2.0	2		12/07/23 16:44	99-87-6		
Methylene Chloride	ND	ug/L	2.0	2		12/07/23 16:44	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	2		12/07/23 16:44	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: MW-101		Lab ID: 10677747016		Collected: 12/01/23 10:51		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	2.0	2		12/07/23 16:44	1634-04-4		
Naphthalene	ND	ug/L	2.0	2		12/07/23 16:44	91-20-3		
n-Propylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	103-65-1		
Styrene	ND	ug/L	2.0	2		12/07/23 16:44	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 16:44	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/07/23 16:44	79-34-5		
Tetrachloroethene	110	ug/L	2.0	2		12/07/23 16:44	127-18-4		
Tetrahydrofuran	ND	ug/L	20.0	2		12/07/23 16:44	109-99-9		
Toluene	ND	ug/L	2.0	2		12/07/23 16:44	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:44	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/07/23 16:44	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	2.0	2		12/07/23 16:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/07/23 16:44	79-00-5		
Trichloroethene	5.8	ug/L	2.0	2		12/07/23 16:44	79-01-6		
Trichlorofluoromethane	ND	ug/L	2.0	2		12/07/23 16:44	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	5.0	2		12/07/23 16:44	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	2.0	2		12/07/23 16:44	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	2.0	2		12/07/23 16:44	108-67-8		
Vinyl chloride	ND	ug/L	2.0	2		12/07/23 16:44	75-01-4		
Xylene (Total)	ND	ug/L	6.0	2		12/07/23 16:44	1330-20-7		
m&p-Xylene	ND	ug/L	4.0	2		12/07/23 16:44	179601-23-1		
o-Xylene	ND	ug/L	2.0	2		12/07/23 16:44	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	2		12/07/23 16:44	2199-69-1	D4	
4-Bromofluorobenzene (S)	102	%.	75-125	2		12/07/23 16:44	460-00-4		
Toluene-d8 (S)	101	%.	75-125	2		12/07/23 16:44	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Equipment Blank #1		Lab ID: 10677747017		Collected: 11/30/23 14:40		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 13:46	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 13:46	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 13:46	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 13:46	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 13:46	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 13:46	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 13:46	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 13:46	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 13:46	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 13:46	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 13:46	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 13:46	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 13:46	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 13:46	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 13:46	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 13:46	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 13:46	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 13:46	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 13:46	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 13:46	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:46	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:46	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:46	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 13:46	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 13:46	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 13:46	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 13:46	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 13:46	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 13:46	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 13:46	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 13:46	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 13:46	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 13:46	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 13:46	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 13:46	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 13:46	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 13:46	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 13:46	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 13:46	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 13:46	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 13:46	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 13:46	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Equipment Blank #1		Lab ID: 10677747017		Collected: 11/30/23 14:40		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 13:46	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 13:46	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 13:46	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 13:46	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 13:46	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		12/07/23 13:46	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 13:46	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 13:46	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:46	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:46	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 13:46	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 13:46	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 13:46	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 13:46	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 13:46	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 13:46	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 13:46	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 13:46	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 13:46	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 13:46	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 13:46	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1		12/07/23 13:46	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		12/07/23 13:46	460-00-4		
Toluene-d8 (S)	98	%.	75-125	1		12/07/23 13:46	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Equipment Blank #2		Lab ID: 10677747018		Collected: 12/01/23 14:43		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 14:00	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 14:00	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 14:00	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 14:00	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 14:00	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 14:00	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 14:00	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 14:00	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 14:00	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 14:00	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 14:00	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 14:00	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 14:00	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 14:00	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:00	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:00	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 14:00	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 14:00	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 14:00	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 14:00	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:00	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:00	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:00	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 14:00	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:00	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:00	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:00	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:00	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:00	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:00	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:00	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:00	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:00	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:00	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:00	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:00	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 14:00	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 14:00	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 14:00	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 14:00	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 14:00	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 14:00	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Equipment Blank #2		Lab ID: 10677747018		Collected: 12/01/23 14:43		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 14:00	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 14:00	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 14:00	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:00	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:00	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		12/07/23 14:00	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 14:00	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 14:00	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:00	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:00	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:00	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:00	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 14:00	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:00	75-69-4	L1	
1,2,3- Trichloropropane	ND	ug/L	2.5	1		12/07/23 14:00	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 14:00	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:00	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 14:00	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 14:00	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 14:00	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 14:00	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1		12/07/23 14:00	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		12/07/23 14:00	460-00-4		
Toluene-d8 (S)	103	%.	75-125	1		12/07/23 14:00	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Equipment Blank #3		Lab ID: 10677747019		Collected: 12/02/23 07:53		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 14:15	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 14:15	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 14:15	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 14:15	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 14:15	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 14:15	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 14:15	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 14:15	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 14:15	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 14:15	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 14:15	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 14:15	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 14:15	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 14:15	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:15	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 14:15	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 14:15	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 14:15	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 14:15	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 14:15	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:15	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:15	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:15	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 14:15	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:15	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 14:15	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:15	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:15	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 14:15	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:15	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:15	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:15	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 14:15	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:15	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:15	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 14:15	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 14:15	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 14:15	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 14:15	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 14:15	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 14:15	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 14:15	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Equipment Blank #3		Lab ID: 10677747019		Collected: 12/02/23 07:53		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 14:15	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 14:15	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 14:15	100-42-5		
1,1,1,2- Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:15	630-20-6		
1,1,2,2- Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 14:15	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		12/07/23 14:15	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 14:15	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 14:15	108-88-3		
1,2,3- Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:15	87-61-6		
1,2,4- Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 14:15	120-82-1		
1,1,1- Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:15	71-55-6		
1,1,2- Trichloroethane	ND	ug/L	1.0	1		12/07/23 14:15	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 14:15	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 14:15	75-69-4	L1	
1,2,3- Trichloropropane	ND	ug/L	2.5	1		12/07/23 14:15	96-18-4		
1,1,2- Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 14:15	76-13-1		
1,2,4- Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	95-63-6		
1,3,5- Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 14:15	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 14:15	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 14:15	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 14:15	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 14:15	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		12/07/23 14:15	2199-69-1		
4-Bromofluorobenzene (S)	103	%.	75-125	1		12/07/23 14:15	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		12/07/23 14:15	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Trip Blank #1		Lab ID: 10677747020		Collected: 12/01/23 07:31		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		12/07/23 13:16	67-64-1		
Allyl chloride	ND	ug/L	2.5	1		12/07/23 13:16	107-05-1		
Benzene	ND	ug/L	1.0	1		12/07/23 13:16	71-43-2		
Bromobenzene	ND	ug/L	1.0	1		12/07/23 13:16	108-86-1		
Bromochloromethane	ND	ug/L	1.0	1		12/07/23 13:16	74-97-5		
Bromodichloromethane	ND	ug/L	1.0	1		12/07/23 13:16	75-27-4		
Bromoform	ND	ug/L	1.0	1		12/07/23 13:16	75-25-2		
Bromomethane	ND	ug/L	2.5	1		12/07/23 13:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/07/23 13:16	78-93-3		
n-Butylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	104-51-8		
sec-Butylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	98-06-6		
Carbon tetrachloride	ND	ug/L	1.0	1		12/07/23 13:16	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		12/07/23 13:16	108-90-7		
Chloroethane	ND	ug/L	2.0	1		12/07/23 13:16	75-00-3		
Chloroform	ND	ug/L	1.0	1		12/07/23 13:16	67-66-3		
Chloromethane	ND	ug/L	1.0	1		12/07/23 13:16	74-87-3		
2-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 13:16	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	1		12/07/23 13:16	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		12/07/23 13:16	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	1		12/07/23 13:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/07/23 13:16	106-93-4		
Dibromomethane	ND	ug/L	1.0	1		12/07/23 13:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:16	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/07/23 13:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	1		12/07/23 13:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		12/07/23 13:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		12/07/23 13:16	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 13:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/07/23 13:16	156-60-5		
Dichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 13:16	75-43-4		
1,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 13:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	1		12/07/23 13:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	1		12/07/23 13:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	1		12/07/23 13:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 13:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/07/23 13:16	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		12/07/23 13:16	60-29-7		
Ethylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/07/23 13:16	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/07/23 13:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	1.0	1		12/07/23 13:16	99-87-6		
Methylene Chloride	ND	ug/L	1.0	1		12/07/23 13:16	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/07/23 13:16	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Trip Blank #1		Lab ID: 10677747020		Collected: 12/01/23 07:31		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/07/23 13:16	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		12/07/23 13:16	91-20-3		
n-Propylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	103-65-1		
Styrene	ND	ug/L	1.0	1		12/07/23 13:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 13:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/07/23 13:16	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		12/07/23 13:16	127-18-4		
Tetrahydrofuran	ND	ug/L	10.0	1		12/07/23 13:16	109-99-9		
Toluene	ND	ug/L	1.0	1		12/07/23 13:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/07/23 13:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/07/23 13:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/07/23 13:16	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		12/07/23 13:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		12/07/23 13:16	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		12/07/23 13:16	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/07/23 13:16	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/07/23 13:16	108-67-8		
Vinyl chloride	ND	ug/L	1.0	1		12/07/23 13:16	75-01-4		
Xylene (Total)	ND	ug/L	3.0	1		12/07/23 13:16	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		12/07/23 13:16	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		12/07/23 13:16	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1		12/07/23 13:16	2199-69-1		
4-Bromofluorobenzene (S)	100	%.	75-125	1		12/07/23 13:16	460-00-4		
Toluene-d8 (S)	100	%.	75-125	1		12/07/23 13:16	2037-26-5		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Duplicate #1		Lab ID: 10677747021		Collected: 12/02/23 00:00		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Minneapolis								
Acetone	1210	ug/L	100	10		12/07/23 17:58	67-64-1		
Allyl chloride	ND	ug/L	25.0	10		12/07/23 17:58	107-05-1		
Benzene	ND	ug/L	10.0	10		12/07/23 17:58	71-43-2		
Bromobenzene	ND	ug/L	10.0	10		12/07/23 17:58	108-86-1		
Bromochloromethane	ND	ug/L	10.0	10		12/07/23 17:58	74-97-5		
Bromodichloromethane	ND	ug/L	10.0	10		12/07/23 17:58	75-27-4		
Bromoform	ND	ug/L	10.0	10		12/07/23 17:58	75-25-2		
Bromomethane	ND	ug/L	25.0	10		12/07/23 17:58	74-83-9		
2-Butanone (MEK)	1850	ug/L	100	10		12/07/23 17:58	78-93-3		
n-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	104-51-8		
sec-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	135-98-8		
tert-Butylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	98-06-6		
Carbon tetrachloride	ND	ug/L	10.0	10		12/07/23 17:58	56-23-5		
Chlorobenzene	ND	ug/L	10.0	10		12/07/23 17:58	108-90-7		
Chloroethane	ND	ug/L	20.0	10		12/07/23 17:58	75-00-3		
Chloroform	ND	ug/L	10.0	10		12/07/23 17:58	67-66-3		
Chloromethane	ND	ug/L	10.0	10		12/07/23 17:58	74-87-3		
2-Chlorotoluene	ND	ug/L	10.0	10		12/07/23 17:58	95-49-8		
4-Chlorotoluene	ND	ug/L	10.0	10		12/07/23 17:58	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		12/07/23 17:58	96-12-8		
Dibromochloromethane	ND	ug/L	10.0	10		12/07/23 17:58	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		12/07/23 17:58	106-93-4		
Dibromomethane	ND	ug/L	10.0	10		12/07/23 17:58	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:58	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:58	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:58	106-46-7		
Dichlorodifluoromethane	ND	ug/L	10.0	10		12/07/23 17:58	75-71-8		
1,1-Dichloroethane	ND	ug/L	10.0	10		12/07/23 17:58	75-34-3		
1,2-Dichloroethane	ND	ug/L	10.0	10		12/07/23 17:58	107-06-2		
1,1-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:58	75-35-4		
cis-1,2-Dichloroethene	567	ug/L	10.0	10		12/07/23 17:58	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		12/07/23 17:58	156-60-5		
Dichlorofluoromethane	ND	ug/L	10.0	10		12/07/23 17:58	75-43-4		
1,2-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:58	78-87-5		
1,3-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:58	142-28-9		
2,2-Dichloropropane	ND	ug/L	10.0	10		12/07/23 17:58	594-20-7		
1,1-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:58	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:58	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		12/07/23 17:58	10061-02-6		
Diethyl ether (Ethyl ether)	ND	ug/L	25.0	10		12/07/23 17:58	60-29-7		
Ethylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		12/07/23 17:58	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	10		12/07/23 17:58	98-82-8		
p-Isopropyltoluene	ND	ug/L	10.0	10		12/07/23 17:58	99-87-6		
Methylene Chloride	ND	ug/L	10.0	10		12/07/23 17:58	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		12/07/23 17:58	108-10-1		

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ANALYTICAL RESULTS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Sample: Duplicate #1		Lab ID: 10677747021		Collected: 12/02/23 00:00		Received: 12/05/23 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Methyl-tert-butyl ether	ND	ug/L	10.0	10		12/07/23 17:58	1634-04-4		
Naphthalene	ND	ug/L	10.0	10		12/07/23 17:58	91-20-3		
n-Propylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	103-65-1		
Styrene	ND	ug/L	10.0	10		12/07/23 17:58	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		12/07/23 17:58	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		12/07/23 17:58	79-34-5		
Tetrachloroethene	275	ug/L	10.0	10		12/07/23 17:58	127-18-4		
Tetrahydrofuran	ND	ug/L	100	10		12/07/23 17:58	109-99-9		
Toluene	ND	ug/L	10.0	10		12/07/23 17:58	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:58	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		12/07/23 17:58	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	10.0	10		12/07/23 17:58	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	10.0	10		12/07/23 17:58	79-00-5		
Trichloroethene	13.4	ug/L	10.0	10		12/07/23 17:58	79-01-6		
Trichlorofluoromethane	ND	ug/L	10.0	10		12/07/23 17:58	75-69-4	L1	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		12/07/23 17:58	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	10		12/07/23 17:58	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		12/07/23 17:58	108-67-8		
Vinyl chloride	ND	ug/L	10.0	10		12/07/23 17:58	75-01-4		
Xylene (Total)	ND	ug/L	30.0	10		12/07/23 17:58	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	10		12/07/23 17:58	179601-23-1		
o-Xylene	ND	ug/L	10.0	10		12/07/23 17:58	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	10		12/07/23 17:58	2199-69-1	D4	
4-Bromofluorobenzene (S)	103	%.	75-125	10		12/07/23 17:58	460-00-4		
Toluene-d8 (S)	101	%.	75-125	10		12/07/23 17:58	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

QC Batch:	922247	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10677747001, 10677747002, 10677747003, 10677747004, 10677747005, 10677747006, 10677747007, 10677747011, 10677747012, 10677747013, 10677747014, 10677747015, 10677747016, 10677747017, 10677747018, 10677747019, 10677747020, 10677747021		

METHOD BLANK: 4846209

Matrix: Water

Associated Lab Samples: 10677747001, 10677747002, 10677747003, 10677747004, 10677747005, 10677747006, 10677747007, 10677747011, 10677747012, 10677747013, 10677747014, 10677747015, 10677747016, 10677747017, 10677747018, 10677747019, 10677747020, 10677747021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/23 12:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/23 12:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/23 12:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/23 12:54	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/07/23 12:54	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/23 12:54	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/23 12:54	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/23 12:54	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/23 12:54	
1,2,3-Trichloropropane	ug/L	ND	2.5	12/07/23 12:54	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/23 12:54	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/07/23 12:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	12/07/23 12:54	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/23 12:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/23 12:54	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/23 12:54	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/23 12:54	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/07/23 12:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/23 12:54	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/23 12:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/23 12:54	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/23 12:54	
2-Butanone (MEK)	ug/L	ND	10.0	12/07/23 12:54	
2-Chlorotoluene	ug/L	ND	1.0	12/07/23 12:54	
4-Chlorotoluene	ug/L	ND	1.0	12/07/23 12:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/07/23 12:54	
Acetone	ug/L	ND	10.0	12/07/23 12:54	
Allyl chloride	ug/L	ND	2.5	12/07/23 12:54	
Benzene	ug/L	ND	1.0	12/07/23 12:54	
Bromobenzene	ug/L	ND	1.0	12/07/23 12:54	
Bromochloromethane	ug/L	ND	1.0	12/07/23 12:54	
Bromodichloromethane	ug/L	ND	1.0	12/07/23 12:54	
Bromoform	ug/L	ND	1.0	12/07/23 12:54	
Bromomethane	ug/L	ND	2.5	12/07/23 12:54	
Carbon tetrachloride	ug/L	ND	1.0	12/07/23 12:54	
Chlorobenzene	ug/L	ND	1.0	12/07/23 12:54	
Chloroethane	ug/L	ND	2.0	12/07/23 12:54	MN

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

METHOD BLANK: 4846209

Matrix: Water

Associated Lab Samples: 10677747001, 10677747002, 10677747003, 10677747004, 10677747005, 10677747006, 10677747007, 10677747011, 10677747012, 10677747013, 10677747014, 10677747015, 10677747016, 10677747017, 10677747018, 10677747019, 10677747020, 10677747021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	12/07/23 12:54	
Chloromethane	ug/L	ND	1.0	12/07/23 12:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/23 12:54	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/23 12:54	
Dibromochloromethane	ug/L	ND	1.0	12/07/23 12:54	
Dibromomethane	ug/L	ND	1.0	12/07/23 12:54	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/23 12:54	
Dichlorofluoromethane	ug/L	ND	1.0	12/07/23 12:54	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	12/07/23 12:54	
Ethylbenzene	ug/L	ND	1.0	12/07/23 12:54	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/23 12:54	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/07/23 12:54	
m&p-Xylene	ug/L	ND	2.0	12/07/23 12:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/23 12:54	
Methylene Chloride	ug/L	ND	1.0	12/07/23 12:54	
n-Butylbenzene	ug/L	ND	1.0	12/07/23 12:54	
n-Propylbenzene	ug/L	ND	1.0	12/07/23 12:54	
Naphthalene	ug/L	ND	1.0	12/07/23 12:54	
o-Xylene	ug/L	ND	1.0	12/07/23 12:54	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/23 12:54	
sec-Butylbenzene	ug/L	ND	1.0	12/07/23 12:54	
Styrene	ug/L	ND	1.0	12/07/23 12:54	
tert-Butylbenzene	ug/L	ND	1.0	12/07/23 12:54	
Tetrachloroethene	ug/L	ND	1.0	12/07/23 12:54	
Tetrahydrofuran	ug/L	ND	10.0	12/07/23 12:54	
Toluene	ug/L	ND	1.0	12/07/23 12:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/23 12:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/23 12:54	
Trichloroethene	ug/L	ND	1.0	12/07/23 12:54	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/23 12:54	
Vinyl chloride	ug/L	ND	1.0	12/07/23 12:54	
Xylene (Total)	ug/L	ND	3.0	12/07/23 12:54	
1,2-Dichlorobenzene-d4 (S)	%	103	75-125	12/07/23 12:54	
4-Bromofluorobenzene (S)	%	102	75-125	12/07/23 12:54	
Toluene-d8 (S)	%	100	75-125	12/07/23 12:54	

LABORATORY CONTROL SAMPLE & LCSD: 4846210

4846211

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	22.2	103	111	75-125	7	20	
1,1,1-Trichloroethane	ug/L	20	20.8	21.7	104	108	75-125	4	20	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	18.1	90	90	71-125	0	20	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

LABORATORY CONTROL SAMPLE & LCSD: 4846210			4846211							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2-Trichloroethane	ug/L	20	18.0	19.0	90	95	75-125	6	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.8	21.6	94	108	69-125	14	20	
1,1-Dichloroethane	ug/L	20	16.8	18.2	84	91	75-125	8	20	
1,1-Dichloroethene	ug/L	20	18.1	19.2	90	96	69-125	6	20	
1,1-Dichloropropene	ug/L	20	19.3	20.0	96	100	74-125	4	20	
1,2,3-Trichlorobenzene	ug/L	20	20.2	20.4	101	102	70-131	1	20	
1,2,3-Trichloropropane	ug/L	20	16.5	18.1	82	91	73-125	10	20	
1,2,4-Trichlorobenzene	ug/L	20	20.2	21.4	101	107	75-125	6	20	
1,2,4-Trimethylbenzene	ug/L	20	19.3	19.8	96	99	75-125	3	20	
1,2-Dibromo-3-chloropropane	ug/L	20	18.2	17.1	91	86	68-129	6	20	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	19.5	93	98	75-125	5	20	
1,2-Dichlorobenzene	ug/L	20	18.4	19.1	92	95	75-125	4	20	
1,2-Dichloroethane	ug/L	20	20.4	21.1	102	105	75-125	3	20	
1,2-Dichloropropane	ug/L	20	18.7	18.8	94	94	75-125	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.6	20.1	98	100	75-125	2	20	
1,3-Dichlorobenzene	ug/L	20	19.8	20.2	99	101	75-125	2	20	
1,3-Dichloropropane	ug/L	20	18.2	19.1	91	95	75-125	4	20	
1,4-Dichlorobenzene	ug/L	20	18.8	19.2	94	96	75-125	2	20	
2,2-Dichloropropane	ug/L	20	23.8	24.9	119	124	65-125	4	20	
2-Butanone (MEK)	ug/L	100	106	108	106	108	61-131	2	20	
2-Chlorotoluene	ug/L	20	18.4	19.2	92	96	75-125	4	20	
4-Chlorotoluene	ug/L	20	19.2	19.9	96	99	75-125	4	20	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.8	106	100	106	62-142	6	20	
Acetone	ug/L	100	95.2	97.5	95	97	57-137	2	20	
Allyl chloride	ug/L	20	18.6	19.1	93	96	73-125	3	20	
Benzene	ug/L	20	18.6	19.4	93	97	75-125	4	20	
Bromobenzene	ug/L	20	19.5	20.3	97	101	75-125	4	20	
Bromochloromethane	ug/L	20	18.3	19.2	91	96	75-125	5	20	
Bromodichloromethane	ug/L	20	19.2	20.7	96	104	75-125	8	20	
Bromoform	ug/L	20	20.3	21.8	101	109	75-134	7	20	
Bromomethane	ug/L	20	20.2	20.9	101	104	32-150	3	20	
Carbon tetrachloride	ug/L	20	22.6	23.9	113	119	73-126	6	20	
Chlorobenzene	ug/L	20	17.3	18.6	87	93	75-125	7	20	
Chloroethane	ug/L	20	16.1	17.3	80	86	70-125	7	20	
Chloroform	ug/L	20	18.2	18.6	91	93	75-125	2	20	
Chloromethane	ug/L	20	17.6	18.2	88	91	65-125	3	20	
cis-1,2-Dichloroethene	ug/L	20	19.5	19.7	98	99	75-125	1	20	
cis-1,3-Dichloropropene	ug/L	20	19.9	21.3	100	106	75-125	7	20	
Dibromochloromethane	ug/L	20	19.6	20.7	98	103	75-125	5	20	
Dibromomethane	ug/L	20	21.1	22.1	106	110	75-125	4	20	
Dichlorodifluoromethane	ug/L	20	20.6	23.2	103	116	65-135	12	20	
Dichlorofluoromethane	ug/L	20	20.0	20.7	100	104	75-125	3	20	
Diethyl ether (Ethyl ether)	ug/L	20	18.2	18.9	91	94	75-125	4	20	
Ethylbenzene	ug/L	20	18.7	20.2	94	101	75-125	8	20	
Hexachloro-1,3-butadiene	ug/L	20	21.8	23.8	109	119	63-128	9	20	
Isopropylbenzene (Cumene)	ug/L	20	19.8	21.5	99	107	75-125	8	20	
m&p-Xylene	ug/L	40	38.6	42.1	96	105	75-125	9	20	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

LABORATORY CONTROL SAMPLE & LCSD: 4846210			4846211							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/L	20	20.0	20.3	100	101	75-125	1	20	
Methylene Chloride	ug/L	20	17.8	19.3	89	96	72-125	8	20	
n-Butylbenzene	ug/L	20	18.7	19.1	93	95	68-125	2	20	
n-Propylbenzene	ug/L	20	18.7	19.3	93	97	74-125	3	20	
Naphthalene	ug/L	20	19.8	19.3	99	96	67-140	3	20	
o-Xylene	ug/L	20	18.8	20.7	94	103	75-125	9	20	
p-Isopropyltoluene	ug/L	20	19.5	20.4	98	102	75-126	5	20	
sec-Butylbenzene	ug/L	20	19.5	20.2	98	101	75-126	3	20	
Styrene	ug/L	20	19.1	21.2	96	106	75-139	10	20	
tert-Butylbenzene	ug/L	20	19.7	20.3	99	101	75-125	3	20	
Tetrachloroethene	ug/L	20	19.4	21.9	97	109	70-125	12	20	
Tetrahydrofuran	ug/L	100	88.1	93.1	88	93	63-145	6	20	
Toluene	ug/L	20	18.5	19.5	93	98	74-125	5	20	
trans-1,2-Dichloroethene	ug/L	20	18.4	20.7	92	104	75-125	12	20	
trans-1,3-Dichloropropene	ug/L	20	19.7	20.9	99	104	75-127	6	20	
Trichloroethene	ug/L	20	19.6	20.2	98	101	74-125	3	20	
Trichlorofluoromethane	ug/L	20	22.9	25.1	115	126	72-125	9	20	L1
Vinyl chloride	ug/L	20	17.8	19.3	89	97	66-125	8	20	
Xylene (Total)	ug/L	60	57.4	62.8	96	105	75-125	9	20	
1,2-Dichlorobenzene-d4 (S)	%				101	99	75-125			
4-Bromofluorobenzene (S)	%				105	105	75-125			
Toluene-d8 (S)	%				102	100	75-125			

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

QC Batch: 922267

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10677747008

METHOD BLANK: 4846334

Matrix: Water

Associated Lab Samples: 10677747008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/07/23 19:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/07/23 19:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/07/23 19:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/07/23 19:13	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/07/23 19:13	
1,1-Dichloroethane	ug/L	ND	1.0	12/07/23 19:13	
1,1-Dichloroethene	ug/L	ND	1.0	12/07/23 19:13	
1,1-Dichloropropene	ug/L	ND	1.0	12/07/23 19:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/07/23 19:13	
1,2,3-Trichloropropane	ug/L	ND	2.5	12/07/23 19:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/07/23 19:13	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/07/23 19:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	12/07/23 19:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/07/23 19:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/07/23 19:13	
1,2-Dichloroethane	ug/L	ND	1.0	12/07/23 19:13	
1,2-Dichloropropane	ug/L	ND	1.0	12/07/23 19:13	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/07/23 19:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/07/23 19:13	
1,3-Dichloropropane	ug/L	ND	1.0	12/07/23 19:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/07/23 19:13	
2,2-Dichloropropane	ug/L	ND	1.0	12/07/23 19:13	
2-Butanone (MEK)	ug/L	ND	10.0	12/07/23 19:13	
2-Chlorotoluene	ug/L	ND	1.0	12/07/23 19:13	
4-Chlorotoluene	ug/L	ND	1.0	12/07/23 19:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/07/23 19:13	
Acetone	ug/L	ND	10.0	12/07/23 19:13	
Allyl chloride	ug/L	ND	2.5	12/07/23 19:13	
Benzene	ug/L	ND	1.0	12/07/23 19:13	
Bromobenzene	ug/L	ND	1.0	12/07/23 19:13	
Bromochloromethane	ug/L	ND	1.0	12/07/23 19:13	
Bromodichloromethane	ug/L	ND	1.0	12/07/23 19:13	
Bromoform	ug/L	ND	1.0	12/07/23 19:13	
Bromomethane	ug/L	ND	2.5	12/07/23 19:13	
Carbon tetrachloride	ug/L	ND	1.0	12/07/23 19:13	
Chlorobenzene	ug/L	ND	1.0	12/07/23 19:13	
Chloroethane	ug/L	ND	2.0	12/07/23 19:13	
Chloroform	ug/L	ND	1.0	12/07/23 19:13	
Chloromethane	ug/L	ND	1.0	12/07/23 19:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/07/23 19:13	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

METHOD BLANK: 4846334

Matrix: Water

Associated Lab Samples: 10677747008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/07/23 19:13	
Dibromochloromethane	ug/L	ND	1.0	12/07/23 19:13	
Dibromomethane	ug/L	ND	1.0	12/07/23 19:13	
Dichlorodifluoromethane	ug/L	ND	1.0	12/07/23 19:13	
Dichlorofluoromethane	ug/L	ND	1.0	12/07/23 19:13	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	12/07/23 19:13	
Ethylbenzene	ug/L	ND	1.0	12/07/23 19:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/07/23 19:13	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/07/23 19:13	
m&p-Xylene	ug/L	ND	2.0	12/07/23 19:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/07/23 19:13	
Methylene Chloride	ug/L	ND	1.0	12/07/23 19:13	
n-Butylbenzene	ug/L	ND	1.0	12/07/23 19:13	
n-Propylbenzene	ug/L	ND	1.0	12/07/23 19:13	
Naphthalene	ug/L	ND	1.0	12/07/23 19:13	
o-Xylene	ug/L	ND	1.0	12/07/23 19:13	
p-Isopropyltoluene	ug/L	ND	1.0	12/07/23 19:13	
sec-Butylbenzene	ug/L	ND	1.0	12/07/23 19:13	
Styrene	ug/L	ND	1.0	12/07/23 19:13	
tert-Butylbenzene	ug/L	ND	1.0	12/07/23 19:13	
Tetrachloroethene	ug/L	ND	1.0	12/07/23 19:13	
Tetrahydrofuran	ug/L	ND	10.0	12/07/23 19:13	
Toluene	ug/L	ND	1.0	12/07/23 19:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/07/23 19:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/07/23 19:13	
Trichloroethene	ug/L	ND	1.0	12/07/23 19:13	
Trichlorofluoromethane	ug/L	ND	1.0	12/07/23 19:13	
Vinyl chloride	ug/L	ND	1.0	12/07/23 19:13	
Xylene (Total)	ug/L	ND	3.0	12/07/23 19:13	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	12/07/23 19:13	
4-Bromofluorobenzene (S)	%	101	75-125	12/07/23 19:13	
Toluene-d8 (S)	%	101	75-125	12/07/23 19:13	

LABORATORY CONTROL SAMPLE: 4846335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.3	106	75-125	
1,1,1-Trichloroethane	ug/L	20	23.3	117	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	71-125	
1,1,2-Trichloroethane	ug/L	20	18.7	93	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.2	106	69-125	
1,1-Dichloroethane	ug/L	20	18.6	93	75-125	
1,1-Dichloroethene	ug/L	20	18.8	94	69-125	
1,1-Dichloropropene	ug/L	20	19.9	100	74-125	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

LABORATORY CONTROL SAMPLE: 4846335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	20.2	101	70-131	
1,2,3-Trichloropropane	ug/L	20	17.5	87	73-125	
1,2,4-Trichlorobenzene	ug/L	20	19.9	99	75-125	
1,2,4-Trimethylbenzene	ug/L	20	19.0	95	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	17.7	89	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	18.7	93	75-125	
1,2-Dichlorobenzene	ug/L	20	18.9	94	75-125	
1,2-Dichloroethane	ug/L	20	22.3	112	75-125	
1,2-Dichloropropane	ug/L	20	19.3	96	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,3-Dichlorobenzene	ug/L	20	19.5	97	75-125	
1,3-Dichloropropane	ug/L	20	18.2	91	75-125	
1,4-Dichlorobenzene	ug/L	20	18.7	94	75-125	
2,2-Dichloropropane	ug/L	20	21.3	106	65-125	
2-Butanone (MEK)	ug/L	100	91.5	92	61-131	
2-Chlorotoluene	ug/L	20	18.1	91	75-125	
4-Chlorotoluene	ug/L	20	18.9	95	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.7	98	62-142	
Acetone	ug/L	100	76.5	77	57-137	
Allyl chloride	ug/L	20	16.9	84	73-125	
Benzene	ug/L	20	18.8	94	75-125	
Bromobenzene	ug/L	20	19.6	98	75-125	
Bromochloromethane	ug/L	20	19.4	97	75-125	
Bromodichloromethane	ug/L	20	21.0	105	75-125	
Bromoform	ug/L	20	20.3	101	75-134	
Bromomethane	ug/L	20	22.1	110	32-150	
Carbon tetrachloride	ug/L	20	24.2	121	73-126	
Chlorobenzene	ug/L	20	17.8	89	75-125	
Chloroethane	ug/L	20	16.1	81	70-125	
Chloroform	ug/L	20	20.2	101	75-125	
Chloromethane	ug/L	20	17.2	86	65-125	
cis-1,2-Dichloroethene	ug/L	20	20.1	101	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	75-125	
Dibromochloromethane	ug/L	20	20.9	105	75-125	
Dibromomethane	ug/L	20	22.7	114	75-125	
Dichlorodifluoromethane	ug/L	20	22.4	112	65-135	
Dichlorofluoromethane	ug/L	20	21.2	106	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	16.6	83	75-125	
Ethylbenzene	ug/L	20	19.5	98	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.5	107	63-128	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	75-125	
m&p-Xylene	ug/L	40	40.2	100	75-125	
Methyl-tert-butyl ether	ug/L	20	20.0	100	75-125	
Methylene Chloride	ug/L	20	18.5	92	72-125	
n-Butylbenzene	ug/L	20	17.4	87	68-125	
n-Propylbenzene	ug/L	20	18.5	93	74-125	
Naphthalene	ug/L	20	18.3	92	67-140	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

LABORATORY CONTROL SAMPLE: 4846335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	20.4	102	75-125	
p-Isopropyltoluene	ug/L	20	19.6	98	75-126	
sec-Butylbenzene	ug/L	20	19.0	95	75-126	
Styrene	ug/L	20	20.8	104	75-139	
tert-Butylbenzene	ug/L	20	19.8	99	75-125	
Tetrachloroethene	ug/L	20	21.2	106	70-125	
Tetrahydrofuran	ug/L	100	77.8	78	63-145	
Toluene	ug/L	20	18.9	95	74-125	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	75-125	
trans-1,3-Dichloropropene	ug/L	20	19.9	100	75-127	
Trichloroethene	ug/L	20	20.7	104	74-125	
Trichlorofluoromethane	ug/L	20	26.7	133	72-125	L1
Vinyl chloride	ug/L	20	18.0	90	66-125	
Xylene (Total)	ug/L	60	60.6	101	75-125	
1,2-Dichlorobenzene-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			107	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4846336 4846337

Parameter	Units	10677747008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.2	20.7	106	104	75-125	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.4	109	107	70-133	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.1	17.4	85	87	71-125	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	20.1	95	100	75-125	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.8	19.8	99	99	50-150	0	30	
Trichlorotrifluoroethane	ug/L	ND	20	20	17.5	17.0	87	85	71-125	3	30	
1,1-Dichloroethane	ug/L	ND	20	20	18.4	19.1	92	96	60-136	4	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.9	18.1	95	90	70-134	5	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.7	19.9	98	99	66-131	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	16.8	17.5	84	87	73-125	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.9	20.1	100	100	66-125	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.6	18.8	93	94	61-143	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.1	16.6	81	83	61-137	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.1	19.0	95	95	75-125	0	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.6	19.0	93	95	75-125	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	22.0	22.0	110	110	71-133	0	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.1	19.1	91	95	75-125	5	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.0	19.3	95	97	70-134	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.8	19.5	99	98	74-125	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.2	18.4	91	92	75-125	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.5	18.8	92	94	75-125	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.7	21.1	103	105	52-140	2	30	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4846336 4846337												
Parameter	Units	10677747008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	100	100	90.5	102	90	102	57-142	12	30	
2-Chlorotoluene	ug/L	ND	20	20	17.7	17.3	89	87	72-125	2	30	
4-Chlorotoluene	ug/L	ND	20	20	18.7	18.5	94	92	69-128	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	98.1	98.6	98	99	59-149	0	30	
Acetone	ug/L	ND	100	100	73.6	86.1	74	86	57-137	16	30	
Allyl chloride	ug/L	ND	20	20	17.1	17.6	85	88	47-139	3	30	
Benzene	ug/L	ND	20	20	18.3	18.2	92	91	66-127	1	30	
Bromobenzene	ug/L	ND	20	20	19.9	19.7	99	98	74-125	1	30	
Bromochloromethane	ug/L	ND	20	20	19.1	18.7	96	94	69-126	2	30	
Bromodichloromethane	ug/L	ND	20	20	20.5	19.9	103	99	75-125	3	30	
Bromoform	ug/L	ND	20	20	20.6	21.4	103	107	66-134	4	30	
Bromomethane	ug/L	ND	20	20	21.7	22.5	108	113	30-150	4	30	
Carbon tetrachloride	ug/L	ND	20	20	23.5	23.1	118	116	73-135	2	30	
Chlorobenzene	ug/L	ND	20	20	17.1	17.8	86	89	75-125	4	30	
Chloroethane	ug/L	ND	20	20	16.0	16.2	80	81	54-143	1	30	
Chloroform	ug/L	ND	20	20	19.2	19.8	96	99	75-125	3	30	
Chloromethane	ug/L	ND	20	20	16.7	17.4	84	87	52-131	4	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.6	19.1	98	96	72-125	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.2	19.7	96	99	73-125	3	30	
Dibromochloromethane	ug/L	ND	20	20	19.5	20.1	97	100	73-125	3	30	
Dibromomethane	ug/L	ND	20	20	21.9	22.6	109	113	67-129	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	21.9	21.7	110	108	54-150	1	30	
Dichlorofluoromethane	ug/L	ND	20	20	20.4	20.2	102	101	63-136	1	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.3	17.7	92	89	70-125	4	30	
Ethylbenzene	ug/L	ND	20	20	18.9	19.4	95	97	74-128	3	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.2	23.2	106	116	54-133	9	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.5	20.2	103	101	75-129	2	30	
m&p-Xylene	ug/L	ND	40	40	39.7	40.0	99	100	70-131	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.1	20.0	101	100	65-132	0	30	
Methylene Chloride	ug/L	ND	20	20	18.0	18.1	90	90	67-125	1	30	
n-Butylbenzene	ug/L	ND	20	20	17.3	17.4	86	87	64-130	0	30	
n-Propylbenzene	ug/L	ND	20	20	17.9	17.4	89	87	72-127	2	30	
Naphthalene	ug/L	ND	20	20	18.8	19.5	94	98	61-150	4	30	
o-Xylene	ug/L	ND	20	20	19.6	19.6	98	98	75-127	0	30	
p-Isopropyltoluene	ug/L	ND	20	20	19.2	18.3	96	92	71-130	5	30	
sec-Butylbenzene	ug/L	ND	20	20	18.4	18.5	92	92	73-130	0	30	
Styrene	ug/L	ND	20	20	19.7	19.9	99	100	73-139	1	30	
tert-Butylbenzene	ug/L	ND	20	20	19.0	18.8	95	94	73-125	1	30	
Tetrachloroethene	ug/L	1.2	20	20	21.4	21.1	101	99	69-129	1	30	
Tetrahydrofuran	ug/L	ND	100	100	79.0	82.3	79	82	63-145	4	30	
Toluene	ug/L	ND	20	20	18.8	18.6	94	93	66-125	1	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.0	18.3	100	92	69-126	9	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.7	20.2	99	101	75-127	2	30	
Trichloroethene	ug/L	ND	20	20	19.4	20.4	97	102	69-127	5	30	

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4846336 4846337												
Parameter	Units	10677747008		MS	MSD					% Rec	Limits	Max
		Result	Conc.	Spike	Spike	MS	MSD	MS	MSD			
Trichlorofluoromethane	ug/L	ND	20	20	20	25.1	25.3	126	126	58-150	1	30
Vinyl chloride	ug/L	ND	20	20	20	16.9	17.6	84	88	54-146	4	30
Xylene (Total)	ug/L	ND	60	60	60	59.3	59.7	99	99	75-126	1	30
1,2-Dichlorobenzene-d4 (S)	%							100	100	75-125		
4-Bromofluorobenzene (S)	%							103	106	75-125		
Toluene-d8 (S)	%							99	102	75-125		

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QUALITY CONTROL DATA

Project: Former Cherry Street Cleaners
Pace Project No.: 10677747

QC Batch:	923650	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10677747013

METHOD BLANK: 4852667 Matrix: Water

Associated Lab Samples: 10677747013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	12/15/23 14:08	
Acetone	ug/L	ND	10.0	12/15/23 14:08	
1,2-Dichlorobenzene-d4 (S)	%.	97	75-125	12/15/23 14:08	
4-Bromofluorobenzene (S)	%.	98	75-125	12/15/23 14:08	
Toluene-d8 (S)	%.	98	75-125	12/15/23 14:08	

LABORATORY CONTROL SAMPLE & LCSD: 4852668

		4852669								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	100	87.9	90.0	88	90	61-131	2	20	
Acetone	ug/L	100	102	108	102	108	57-137	6	20	
1,2-Dichlorobenzene-d4 (S)	%.				98	97	75-125			
4-Bromofluorobenzene (S)	%.				99	99	75-125			
Toluene-d8 (S)	%.				99	101	75-125			

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QUALIFIERS

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 922247

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 923650

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] The continuing calibration verification was below the method acceptance limit for bromomethane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

D4 Sample was diluted due to the presence of high levels of target analytes.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Cherry Street Cleaners

Pace Project No.: 10677747

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10677747001	MW-1	EPA 8260D	922247		
10677747002	MW-2R	EPA 8260D	922247		
10677747003	MW-3R	EPA 8260D	922247		
10677747004	MW-4	EPA 8260D	922247		
10677747005	MW-5	EPA 8260D	922247		
10677747006	MW-6	EPA 8260D	922247		
10677747007	MW-7	EPA 8260D	922247		
10677747008	MW-9	EPA 8260D	922267		
10677747011	MW-11	EPA 8260D	922247		
10677747012	MW-13	EPA 8260D	922247		
10677747013	MW-15	EPA 8260D	922247		
10677747013	MW-15	EPA 8260D	923650		
10677747014	MW-15D	EPA 8260D	922247		
10677747015	MW-23	EPA 8260D	922247		
10677747016	MW-101	EPA 8260D	922247		
10677747017	Equipment Blank #1	EPA 8260D	922247		
10677747018	Equipment Blank #2	EPA 8260D	922247		
10677747019	Equipment Blank #3	EPA 8260D	922247		
10677747020	Trip Blank #1	EPA 8260D	922247		
10677747021	Duplicate #1	EPA 8260D	922247		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Chain of Custody

Sign Digital COC at sampleserve.com/labapp

Client Information

The ELAM Group

161 N Lakeview Dr, Noblesville, IN 46060, USA
None, None

Chris Sloffer

317-509-9926

chris.sloffer@elamusa.com

Due Date:

Project Information

Project Name Former Cherry Street Cleaners

Invoice Information

The ELAM Group

161 N Lakeview Dr, Noblesville, IN 46060, USA
None, None

Attn: Accounts Payable

888-510-3526

accounts.payable@elamusa.com

Turn Around Time

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Three Day☐ Next Day ☐ Five Day☐ Two Day ☒ Standard

4c0be43d-1b00-4e44-8fec-b859544d913f

		Data Collected		Analytical Parameters, Number of Containers and Preservative														Comments
Item#	Sample Id	Date	Time	Matrix	Full VOC Scan 8260 40.0 mL Clear VOAs HCl													
1	MW-1	12/02/2023	15:40	GW	3													001
2	MW-2R	12/02/2023	10:21	GW	3													002
3	MW-3R	12/02/2023	10:38	GW	3													003
4	MW-4	12/01/2023	10:29	GW	3													004
5	MW-5	12/01/2023	13:40	GW	3													005
6	MW-6	12/02/2023	08:51	GW	3													006
7	MW-7	12/02/2023	11:51	GW	3													007
8	MW-9	12/01/2023	09:16	GW	3													008
9	MW-9 MSD	12/01/2023	09:16	GW	3													009
10	MW-9 MS	12/01/2023	09:16	GW	3													010
11	MW-11	12/02/2023	13:17	GW	3													011
12	MW-13	12/01/2023	14:42	GW	3													012
13	MW-15	12/02/2023	14:24	GW	3													013
14	MW-15D	12/01/2023	12:25	GW	3													014
15	MW-23	12/02/2023	09:13	GW	3													015

Special Instructions or Notes

WO#: 10677747



10677747

elamusa

Chain of Custody

Sign Digital COC at sampleserve.com/labapp

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4c0be43d-1b00-4e44-8fec-b659544d913f

[illegible]

Special Instructions or Notes

Transfer History

Collected by

Sample ID



Duplicate #1, MW-1, MW-2R, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-9, MW-9 MSD, MW-9 MS, MW-11, MW-13, MW-15, MW-15D, MW-23, MW-101, Equipment Blank #1, Equipment Blank #2, Equipment Blank #3, Trip Blank #1

Alex Gadberry

Custody Transfer #1

Custody Transfer #2

Custody Transfer #3

Custody Transfer #4

Received at the lab

Relinquished By

Received by

Relinquished By

Received by

Relinquished By

Received by

Relinquished By

Received by

Received by



Alex Gadberry

12/4/23, 12:54 PM
47.4257595,
-122.2970079



FedEx

12/4/23, 12:54 PM
47.4257595,
-122.2970079



FedEx

Sign Below

Received by Lab			
Name	Signature	Date	Time
Walter Washington		12/5/23	8:50

Effective Date: 4/14/2023

Sample Condition Upon Receipt	Client Name: <u>Elam Group</u>	Project #: WO#: 10677747
	Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Speedee ☐ Commercial	PM: RMJ Due Date: 12/19/23 CLIENT: ELAM Group

Tracking Number: 609272423055 ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Temp Blank? ☒ Yes ☐ No
 Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None
☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252/1710 ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: <u>5.4</u> °C	Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: <u>+0.1</u> Cooler Temp Corrected w/temp blank: <u>5.5</u> °C	☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☐ N/A, water sample/other: _____Date/Initials of Person Examining Contents: JW 12/15/23
 Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☒ No

 Did samples originate from a foreign source (internationally including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☒ Minneapolis ☐ Virginia	COMMENTS
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)? ☒ Yes ☐ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested? ☐ Yes ☒ No	6.
Sufficient Sample Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No ☐ N/A	8.
-Pace Containers Used? ☒ Yes ☐ No	9.
Containers Intact? ☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☒ Yes ☐ No	11. If no, write ID/Date/Time of container below: ☐ See Exceptions ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other	12. Sample # ☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142 pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
(HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	15. <u>Two trip blanks</u> Pace Trip Blank Lot # (if purchased): <u>4445/19</u>
Headspace in Methyl Mercury Container? ☐ Yes ☐ No ☒ N/A	
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
3 Trip Blanks Present? ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present? ☒ Yes ☐ No ☐ N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Rag/er

Date: 12/06/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JWLine: 3



Appendix E

EOS Removal Procedures



Appendix E

EOS Monitoring & Removal Procedures

EOS monitoring and removal includes measuring depth to product or water in a series of injection wells and monitoring wells, collecting product samples and removing of EOS.

E.1 EOS Gauging and Thickness Assessment

Prior to product sampling and removal, the depth to product and product thickness were gauged in injection wells and monitoring wells. An ELAM scientist first accessed each well following this procedure:

1. Don a pair work gloves
2. Unbolt the flushmount cover for the injection or monitoring well
3. If necessary, remove standing water within the flushmount skirt
4. Remove the expandable plug secured to the monitoring well casing

For gauging, an ELAM scientist adhered to the following procedure

1. Don a pair of unused, disposable nitrile gloves.
2. Decontaminate a oil/water interface probe and tape measure reel with a Liquinox® solution and rinse with distilled water
3. Carefully lower the probe down the wellhead until an audible signal is heard. If signal is steady, product has been encountered. If signal is intermittent, water has been encountered.
4. Record the depth to product or water to the nearest 0.01 foot on the field form.¹
5. Lower a bailer into the well until as much EOS as possible is collected.
6. Bring the bailer to the surface and measure the thickness of EOS.
7. Record the product thickness on the field form.

¹In 4Q 2016 the oil/water interface probe was used to estimate the EOS thickness by lowering the probe through the EOS until water was detected. This method did not provide accurate depth-to-water measurements because the EOS often adhered to the probe tip and prevented detection of water. Consequently, for all subsequent gauging events, a bailer was used to measure the EOS thickness and the oil/water interface probe was only used for the initial measurement to detect EOS or water.



E.2 Product Sampling and EOS Removal

When collecting product samples, the following procedures are used:

1. Don a pair of unused, disposable nitrile gloves.
2. Lower a bailer into the well until EOS has been captured, while limiting the amount of water captured.
3. Decant product into each of the three 40 mL vials preserved with HCl, ensure the meniscus is intact.
4. Seal vials, ensuring there is no headspace and store on ice in cooler.

E.3 EOS Removal

EOS removal is generally conducted at wells with EOS thicknesses of 0.02 feet or greater using the following procedures:

1. Don hearing protection and unused, disposable nitrile gloves and/or work gloves.
2. Ensure vacuum truck operator has proper PPE.
3. Mark the vacuum hose with duct tape at the depth product was encountered.
4. Slowly lower the vacuum hose into the well until product depth is reached.
5. Proceed to lower hose to approximate depth of bottom of product. Minimize water intake.
6. Remove hose and move onto another well.
7. After the well has been allowed to sit and recharge, check thickness with a bailer. If EOS has returned to the well, repeat the vacuum procedure.
8. After all vacuuming has been completed, transfer the recovered EOS to 275-gallon totes or 55-gallon drums.
9. Seal totes and drums, label with a hazardous waste label.

E.3 Waste Management

All decontamination water and EOS waste were containerized in Washington State Department of Transportation ("WSDOT") approved 55-gallon drums affixed with "Pending Analysis" labels. All investigation waste drums were removed for disposal in accordance with the Washington State Department of Ecology ("Ecology") site-specific "Contained-In" Determination.